* UMASS/AMHERST *
312066 0333 3138 7



UNIVERSITY OF MASSACHUSETTS
LIBRARY

LIBRARY
UNIVERSITY OF
MASSACHUSETTS
AMHERST, MASS.

THE AMERICAN FLORIST.

A WEEKLY JOURNAL FOR THE TRADE.

VOLUME IX.

CHICAGO:
AMERICAN FLORIST COMPANY.
1894.

Am 3 + v.9:1

THE AMERICAN FLORIST.

VOLUME IX.

August 10, 1893 to August 2, 1894.

CONTENTS.

Illustrations are indicated by an *

A

Abutilon, a large 1178
Abutilon vexillarium 453
Acacias 856, *936
Acacia armata 601
Acacia Drummondii 601
Acalyphas for bedding 554
Acalyphas propagating 372
Achillea ptarmica 1088
Acorus japonicus 556
Adiantum Cæslanum 1157
Adiantum cuneatum 1257
Adiantum Farleyense 192, *659
Adiantum Farleyense, propagating 659
Æchmea Mariæ Reginæ 211
Agdesmia clematidea 235
Ah there 850
Alpine plants in Harz Mts 1216
Alternanthera, potting 877
Alyssum, propagating 64, 682
Am. Association of nurserymen 1088
Among Chicago growers 678, 704, 806, 905 1254.
*Ampelopsis heterophylla 535
*Andy 905
Annual spring number 688
Annuals, sowing 762
Annuals, transplanting 885
Another specimen 959
Anthemis coronaria 762
Anthericum 433
*Anthony, J. T 50
Anthracnose, cucumber 1113
Anthracnose on cutting bench 1258
Anthuriums and alocasias, feeding 239
Anthurium Scherzerianum 1185
*Antirrhinum majus 908
Ants 755
Ants, control of 844
Aphelandras 211, 389
Aquatics 122
Aquatics, insects injurious to 233
Aralias, grafting 123
Araucarius in summer 1114
Ardisia, sowing 123
Arecas 191
Arrangement of flowers
—*Baskets with handles 986
Care of stock 751
—*Cut flowers in boxes 1184
—*Different effects from same material 986
—*Dress bouquets 1069
—*Flat bouquets 1010
—Mossing designs and baskets 752
—*Simple baskets 901
—*Simple bouquets 851
—*Simple funeral designs 754
—*Stemming and wiring 753
—*Vases, arrangement of 1133
*Arrangement of orchids and ferns 281
*Art Institute 207
An a seed grower sees it 916
Asparagus beetle, the 1089
Asparagus plumosus, propagating 557
Asparagus plumosus, sowing 123
Asparagus plumosus turning yellow 775
Asparagus Sprengeri 212
Asphaltum on steam pipes 1096
Asplenium nidus 556
Assessing greenhouses 88
Astera, fine 126
Astera, forcing 515
*Asters, hardy 283
Astilbe, potting 277
Astoria a visit to 211
*Atlantic City, beach at 1159
*Atlantic City, board walk 1161
Atlantic City, exhibition at 1162
Atlantic City, hotels at 1188, 1215
*Atlantic City, scenes at 1163
August, hardy flowers for 1212
Azaleas 277, 763
Azaleas for Easter 499
Azaleas, general treatment 881
Azaleas, grafting 277
Azaleas in winter 189
Azaleas, planting out 277
Azaleas, plunging 1060, 1086
Azaleas, potting 190
Azaleas, primroses, etc 881
Azaleas, propagating 277
Azaleas, substituting 679

B

Baltimore 26, 54, 72, 107, 126, 148, 174, 215 248, 262, 334, 396, 409, 439, 486, 508, 548, 605 654, 676, 708, 752.
*Bard of Kingcassing 1213
Base ball 1021
*Basket, chrysanthemum 434, 479
*Baskets hanging 144
Beaufortia splendens 1163
*Begonias at World's Fair, tuberous 263
Begonia incarnata 439
Begonias, tuberous 554, 579
Begonia Vernon 554
*Begonias, vase of tuberous 146
Bench boards, prevention of rotting 1139
*Bench, greenhouse 213
Benches, board for 1137
*Benches first, roof last 622
*Berberis Thunbergii 535
*Berberis vulgaris 535
Bermuda's charms 1172
Bethlehem, Pa 868
Black spot, cause of 274
*Blighting of blossoms 1093
*Blight of ornamental ferns 766
*Blight of sobralia 766
*Blight of the ivy 261
*Blight, palm leaf 967
Blunders in the mail service 933
Boiler, capacity of 894
Boilers, sectional 212
Books on gardening 877
Boston 66, 90, 116, 126, 146, 172, 194, 213, 261 279, 323, 374, 396, 420, 440, 458, 476, 498, 518 558, 581, 603, 628, 660, 684, 722, 750, 788, 810 834, 857, 883, 911, 936, 964, 992, 1014, 1041, 1063 1090, 1117, 1138, 1165, 1188, 1192, 1214, 1236 1261.
Boston, wholesale flower trade 1157
*Botanical garden, grouping in 1186
Botanic gardens 636
*Bouquets, wedding 580
Bouvardia 125, 154
British imports 610
Bromeliads 389
Bromus inermis 1179
Buffalo 66, 86, 126, 194, 215, 235, 282, 330, 395 426, 459, 479, 499, 519, 539, 582, 659, 720, 751 769, 834, 859, 884, 912, 966, 994, 1016, 1066, 1092 1118, 1140, 1174, 1214, 1235, 1263.
Bulbs and bantams 186
Bulbs, autumn treatment 105
Bulbs, covering 438
*Bulb farm, a Holland 1208
Bulbs, forcing 373, 623
Bulbs in pans 210
Bulbs, planting beds 322
Bulbs, retarding 703
Bulbs, time to force 682
Bulb trade, review of 402
Burchellia capensis 211
*Burpee, W. Atlee 39

C

Caladium esculentum 762
Caladiums 908
*Caladiums, fancy 279
Calceolarias, aphis on 678
Calceolarias, sowing 64, 678
Calif. exposition 508
Calif. Nurserymen's Association 78
Calla bulblets 1114
Calla, Little Gem 757
*Callas, decay of 932
Callas, potting 37
Callas, shifting 372
Campanula persicifolia 1088
Canna—Admiral Gervais 106
—Alphonse Bouvier 105 *259
Baronne de Renowardy 106
—Capt. P. de Suzzoni 105
—Chas. Henderson 106
—Columbia 166, *191
—Comte Horace de Choiseul 105
Duke de Montenard 106
—Egandale 105
—Explorateur Crampbel 105
Florence Vaughan 165, *190
—Francois Crozy 105
J. C. Vaughan 106
—J. D. Cabos 165, *191
—*Mme. Crozy 105
Miss Sarah Hill 105
Paul Bruant 106
Paul Marquant 158, 165
—Pres. Carnot 165
Secretary Stewart 105
Senator Montefiore 166
Stadtgartner Sennecholz 106
—Statuaire Fulconis 165
Cannas 165, *190
Cannas, slow germination 682
Cannas, starting 573
"Capt the fruight" 826
*Caricature, the orchid in 1190
Carnation *Ada Byron 837
Adelaide Kresken 454
Annie Pixley 278
Boston d'Or *624, *649
Buttercup 653
Daybreak 454, 577, 653, *727
Dr. Smart 578
E. A. Wood 578, *703
Edna Craig 278, 454, 653, 931
Fred Dorner 278
Geneva 1086
Goldfinch 578 *823
Grace Wilder 142, 880, 1038
Helen Keller 475, 653, 682
Hinze's White 142
Lady Emma 456, 514
Lizzie McGowan 142
Mme Diaz Albertini 577, *705
Mrs. Eliz. Reynolds 677, *729
Mrs. Fisher 880, 1038, 1164
—Nancy Hanks 454
Ophelia 278
Portia 456, 577
Richmond 578, *831
—Silver Spray 454
—Silver Spray, striped 578
—Spartan 578
—Sweetbrier 278
—*The Stewart 681
—*Uncle John 683
—Western Pride 578
—White Dove 577
—White Wings 577
—Wm. Scott 577, *707
Carnations 4
—American Carnation Society 514, 624, 645
—Am. Carn. Society banquet 645
—Am. Carn. Society exhibition 648
—Ammonia for spraying 392
—Anthracnose 646
—An unfortunate blunder 124, 168
—At Kennett Square, Pa 278
—At the New York show 272
—Benches vs. solid beds 1138
—Bench, word for the 960
—Border carnations 654
—Bordeaux mixture for disease 533
—Carbolic acid for rust 681
—Care in field 652
—Chester Co. notes 436
—Chester Co. Society 103, 205, 322, 415, 514, 600, 703, 969.
—Chicago carnation notes 577
—Chicago growers 454
—Chicago notes 577, 624
—Correction 514
—Crimson clover in field 142
—Crossing and selection 728
—Damping off 38
— esirable varieties, and their improvement 652
—Disbudding 5, 372
—Discrimination of diseases 646
—*Display by Mr. Dorner 679
—Exhibiting 808
—Fairy ring 646
—Firing 651
—Foliage 1231
—For cut flowers 651
—For spring sales 145
—For summer 84
—Ground bot e for 372
—Heating for 1110
—Houses 1058
—How I tie 600
—Improving by selection 1038
—In Canada 653
—In cold frame 837
—In pots 1111
—In the field 1186
—Keeping qualities 728
—Lady Emma and Portia 436
—Long stems 256
—*Nematode disease 680
—New carnations and their introduction 649
—Nitrate of soda on 881
—Nomenclature 456, 475
—Notes 1, 142, 209, 230, 256, 278, 320, 321, 372, 392, 414, 434, 454, 474, 513, 533, 556, 578 600, 624, 728, 764, 856, 880, 904, 930, 960, 988, 1012, 1058, 1110, 1138, 1164, 1186, 1210, 1241, 1256.
—On benches 455
—Packing flowers 256
—Planting 5, 652
—Planting out 301
—Plants in pots 836
—Portia and Lady Emma 514
—Potting 678
—Preparations for planting 764
—Propagating 414, 556
—Proposition, a 456
—Purple joint 646
—Red spider 455
—Red spider, getting rid of 961
—Revising varieties 513
—Rosette 646
—Rust 38, 435, 474, 513, 646, 960, 1012
—Rust, carbolic acid for 880
—Rust experiments 1231
—Satisfactorily adjusted 322
—Seasonable hints 38, 61, 81, 102, 124, 142, 168.
—Seedlings 1257
—Self-fecundation 728
—Selling 188
—Shading 209
—Shipping C. O. D 856
—Sleepy carnations 728
—Snails among 761
—Soil 1210
—Spot 646
—Staking 230, 961
—Syringing 321
—Temperature 230, 392, 578
—Two new 578
—Varieties for cutting 651
—*View in one of Mr. Dorner's houses 685
—Watering 321, 651, 653
—Watering and feeding 272
Catalogue trade 688
Catalogues received 81, 130, 152, 198, 218, 271 302, 422, 502, 622, 644, 664, 690, 708, 732, 670, 695, 734, 816, 864, 938, 1020, 1170.
Cattleya hybrida 1258
Cattleya Iricolor 1110
Cattleya minucla 1258
Cattleya Philo 1110
Cattleyas 232
*Celastrus articulatus 534
*Celastrus scandens 534
Centaurea, sowing 190, 453
*Clamp iron for swing shelf 944
Clematis, propagating 110
Cleveland 506, 967, 1016, 1052, 1074, 1104, 1168, 1187, 1215 1237, 1262.
Cleveland park system 1161
Clifton, N. J 1270
Chestnut Hill, Pa 1048
Chicago 22, 50, 78, 86, 118, 126, 147, 172, 194 214, 236, 262, 281, 298, 332, 362, 375, 396, 420 438, 460, 478, 497, 516, 538, 559, 582, 603, 628 660, 684, 707, 731, 768, 810, 832, 858, 882, 910 937, 966 988, 1014, 1041, 1064, 1092, 1115, 1139 1165, 1189, 1213, 1234, 1260.
Chicago, a v sit to 149
Chicago exchange 829
Chicago growers, among 678, 704, 806, 905 1254.
Chicago notes 757
Chicago notes, random 283
Chicago parks 1009, 1059
Chicago to Atlantic City 1163, 1200, 1264
Chicago trade, historical reminiscences 1205
Chicago violet growers 553
Children, those dear 98
Chorozema 211
Christmas trade report 495
Chrysanthemum—Ada Spaulding 189
—Aug. Swanson 416
—*Beau Ideal 311
—*Challenge 339
—*Eugene Dallicdouze 341
—*Geo. W. Childs 310
—Golden Empress 169
—Golden Wedding 457
—Good Gracious 438
—Gorgeous 169
—*Harry Balsley 315
—*Inter Ocean 343
—*Ivory 288
—King's Daughter 416
—*L'Enfant des Deux Mondes 313
—*Major Bonaffon 337
—*Marie Louise 319
—Molly Bawn 416
—Mrs Craigo Lippencott 394
—*Mrs. E. G. Hill 237
—*Mrs. J. Geo Ile 345
—Mrs. J. G. Whilldin 169
—*Mutual Friend 457
—O. P. Bassett 189
—Princess 438
—Princess of Chrysanthemums 394
—Ramona 169
—Robt. Bottomley 416
—*Robt. Meinnes 312, 314
—Ronaillon 169
—Rosa Kupferle 258
—*The Queen 309
—Vivland-Morel 166', *315
—*Whilldin, Mrs. J. G 313
Chrysanthemums—Arrangement at shows 1256
—*Attacks of tarnished plant bug 168
—*Basket 431
—*Bench grown 6
—*Collection of 48 vars 317
—Colors under artificial light 456
—Coming exhibitions 1057
—Condensed list 300
—Cultural notes 189
—Damping off 124
—Diary 1109
—Disbudding 8, 124
—Early varieties 210
—Feeding 170
—From Elmira 370
—Good Gracious? Princess 438
—*House of chrysanthemums 627
—Ideal, the 320
—In pots 1136
—Insects on 438
—Items at the show 288
—Judging in America 1210
Judging new 320
Keeping for exhibition 290
—Labelling 230
—Lifting 64
—Manure 1085
—Notes 104, 288, 457
6, 1057
—Planting 6, 1063, 1064
—Propagating 436
—Registering names 314, 370
—Review of varieties 108, 210, 230
—Seasonable hints 1034, 1057, 1085, 1109
—Seasonable notes 1136, 1162, 1210, 1256.
—Seedlings and exhibitions 436
—Seedlings at Boston 313
—Shading 7, 1109
—Short single stem 370
—Shows 170, 198, 218, 240, 258, 286, 299
—Smoking 125
—Soil 1033
—*Specimens at Boston 371
—Staking 1210
—Staking and tying 7
—Stimmants 7, 124
—Stopping 1136
—Temperature 125

—Ventilation..... 7
—World's Fair show.....253, 237
Chrysanthemum shows—Baltimore... 344
—Boston..... 319, 350
—Brooklyn, N. Y..... 369
—*Chicago..... 310, 338
—Elmira, N. Y 367
—Flushing, N. Y..... 375
—Frederick, Md..... 393
—Germantown, Pa..... 368
—Indianapolis..... 344
—*Indianapolis, general view..... 397
—Louisville, Ky..... 393
—Milwaukee, Wis..... 350
—Montreal..... 349
—New Bedford, Mass 368
—New Haven, Conn 369
—Newport, R. I..... 348
—New York..... 318, 342
—*New York, corner at..... 369
—*New York, general view 367
—Oshkosh, Wis..... 370, 394
—Philadelphia..... 316, 342
—Pittsfield, Mass..... 328
—Providence, R. I..... 349
—St. Louis 347
—San Francisco..... 369
—Sioux City, Ia..... 324, *452
—Springfield, Mass 366
—Terre Haute, Ind..... 394
—Toronto 350, 392, 416
—Washington..... 365
—Worcester, Mass 350
—Yonkers, N. Y 356
Chrysanthemum society 88
Chrysanthemum society, English 141
*Church decoration 1091
Cincinnati 236, 420, 550, 701, 918, 940, 992 1063, 1102, 1118, 1140, 1176, 1190, 1222, 1246 1262.
Cincinnati to Atlantic City..... 1264
Cinerarias and calceolarias..... 677
Cinerarias, feeding 677
Cineraria m. aurea 757
Cinerarias, potting... 232, 677
Cinerarias, sowing 677
Cinerarias, watering..... 601
Cistern, manure 761
Cisterns, system of..... 760
Coal tar..... 1232
*Cœlogyne cristata..... 232, 1110
Coke dust for propagating..... 1124
Coleus new and old..... 931
Coleus, propagating..... 499
Colored light, influence on plants.....1202
*Color in flowers, law of..... 701
*Column, broken..... 599
Column, floral 1172
Coming exhibitions 1020, 1057, 1085, 1109 1156, 1162, 1212, 1238.
Commission business, needs of.....1086
Conifers, rooted cuttings..... 466
Construction of contract..... 867
Convention exhibition.....588, 1057
Convention notes.....1258
Cool growing 908
Co-operation between growers and retailers 30
Correction, a..... 88, 701, 969
Cotyledons 555
Couldn't deceive her..... 848
Cost of building..... 258
Counting lily blooms..... 933
*Craig, Robert..... 249
*Crescent wreath..... 931
Crimson clover to plow under..... 142
Crinums in pots 881
Cromwell, Conn..... 358
Crotons and nepenthes 556
Crotons for bedding..... 554
Crude oil for fuel..... ...258, 848, 968, 1080
Cucumbers under glass 704
Cut flowers, packing and shipping.....961
Cuttings, anthracnose in..... 762
Cyathea Mustersiana.....1137
Cyathea pygmæa.... 1137
Cycas leaves, dried..... 238
Cyclamen disease 579
Cyclamen, insects on..... 614
Cyclamens 438, *879
Cyclamens, general treatment..... 881
Cyclamens, potting 145
Cyclamens, ripening bulbs..... 879
Cyclamens, soil... 879
Cypripedium Charlesworthi..... 259
Cypripedium Fairieano-Lawrenceanum..... 681
Cypripedium Grayanum unicolor.... 902
Cypripedium Paris. 902
Cypripediums..... 232
Cytisus 763
Cytisus Andreanus..... 907
Cytisus racemosus..... 1257

D

*Daffodil farm, an Irish.....1191
Daffodils, forcing..... 558
Dalechampia 211, 389
Danger in flowers..... 1250
*Davallia Fijiensis 238
*Davallia Mooreana..... 290
Decision reversed, a 1100
*Decorations, holiday 493
Decorative plants for western trade.. 141
*Decorative plants, group of..... 85
Delphiniums..... 1088
Dendrobium euosmum..... 704
Dendrobiums 232
Denver 46, 222, 418, 490, 528, 561, 790, 820, 906, 980, 1015, 1048, 1117, 1168, 1235.
Dept. of agriculture.....154, 1088
Designs, floral 127
*Design, funeral.... 579
Detroit..... 818, 1238
*Dieffenbachias, anthracnose of..... 937
Disa premier..... 259
Discovery, a wonderful..... 594
*Displays for effect..... 514
Distributing liquid manure..... 263
Doylestown, Pa..... 1067
Dracæna ambilis 231
Dracæna fragrans..... 231
*Dracæna fragrans, blight of..... 601
Dracæna Goldieana..... 231
Dracæna gracilis..... 231
Dracæna indivisa 231, 1114
Dracæna terminalis..... 231
Dracænas..... 230
Dracænas, propagating..... 102
"Drecuna Judavissi"..... 274
Duty on beans and peas..... 610
Duty on plants, decision..... 774
Duties under Wilson bill.....1148
Dwarfing plants in Japan..... 62

E

Easter, early..... 837
Easter, plants after..... 763
Easter reflections..... 909
Easter trade..... 829
Educating the public..... 184
Egg shells, new use for..... 1202
Eichhornia crassipes 122
Elevation of the trade..... 156
Epiphyllums..... .. 389
Equalization of prices 1070
Erfurt, hort display at.....1218
Ericas at Whitestone 599
Eryngium amethystinum..... 42
Eucharis amazonica..... 1176
Euphorbia polnsettia..... 515
Eurjale ferox..... 122
Exhibition, a grand..... 229
Exhibition management..... 514
Expose the rogues 1067
Express company's liability.. 812
Express rates..... 226, 776, 887

F

Farm, the model..... 107
Fern notes.....1036
Fern seed, keeping..... .. 192
Fern spores..... 906
Ferns and smilax..... 526
Ferns and their culture..... 903
*Ferns, blight of..... 766
Ferns for ferneries..... 516
Ferns, keeping spores..... 903
Ferns, ripening spores..... 906
Ferns, seedling..... 903
Ferns, sowing. 122, 903, 906
Ferns, time of germination 906
Ferns, watering..... ... 903
Field roots and forage crops. 1145
Fireman, night 230
Firing 1069
First-class plants, are they.....*1189, 1232
Fish story, a 1082
Flatbush Florists' Bowling Club. 746
Flatbush, L. I..... 1246
Floral column..... 1172
Floral decorations..... 282
Floral design patent, validity of.....1000
Floriculture, advancement of..... 144
Floriculture, future of..... 36
Floriculture, present of..... ... 62
Florists' supplies 238
Flower pot, making..... 616
Flower show as an educator..... 597
Flower show, review of 433
Flower shows, influence of 985
Flowers and their colors 756
Flowers as political badges 186
Flowers for dinner 614
Foreign notes 24, 150, 239, 259, 410, 570, 691 642, 681, 734, 842, 934, 962, 1039, 1137, 1192 1248.
Forest lawn cemetery 1172
Franciscea..... 389
Free seed distribution..... 1170
Freesias, forcing 438
*Friends of the mums..... 300
Fruit exhibition, Russian..... 1183
Fuchsias, propagating..... 277
Fungicide, what is..... 806
*Funeral bunch..... 933
*Funeral design..... 935
Funeral designs, concerning..... 299
Funeral flowers 234
*Funeral of President Carnot, decorations at 1254

G

Galax aphylla..... 692
Galt, Ont 1150
Gardenias..... 259
Gardening, books on 877
*Garfield Park, fancy bedding..... 63
Gas, injury by escaping 408
Gastropods in Piqua..... 1211
Geraniums, picking over..... ... 322
Geraniums propagating..... 37, 558
Geraniums, shifting..... 438
Germantown Pa..... 461, 920
Gesneras..... 390
Gladiolus, forcing 516
Gladiolus, planting..... 855
Glass burning plants..... 886
Glazing..... 908
Gloxinia, old bulbs 1257
Gloxinias..... 578
Graderia subintegra..... 601
Grafting extraordinary 1100
Grassboppers, to combat..... 272
Greenfly 870, 987
*Greenhouse, a traveling..... 1114
*Greenhouse construction.... 234, 496, 621
Greenhouse flowering plants..... 389
*Greenhouse pest, a new 1062
Greenhouse plants, little grown. 211
Greenhouses, assessing 568
Greenhouses, iron frame 622
*Greenhouses of H. A. Dreer, view of.1207
Greenhouses, sash bar 621
Greenhouses, wooden frame.... 622
Grevillea robusta... 1114
Growing Dutch bulbs and lilacs... ... 959
Grubs in soil, killing..... 171
Grub worms..... 85
Gymnogramme chrysophylla Lauchæana.... 1036
Gymnogramme decomposita 1036
Gymnogramme Parsonsii 1036
Gymnogramme Peruviana argyraphylla 1037
Gymnogramme schizophylla... 1037
Gymnogramme sulphurea.....1037
Gymnogramme tartarea 1037
Gymnogramme triangularis.....1037
Gymnogramme Wettenhalliana.....1037
Gynura aurantiaca..... 758

H

Habrothamnus..... 389
Habrothamnus elegans..... 211
Had felt the influence 202
Hail association.....70, 618, 976
Hail at Newport, R. I.....1211
Hail storms..... 901
Hanging baskets 963
Hardiness of plants of plants affected by exposure..... 1134
Hardy flowers for August..... 1212
Hardy plants for cutting..... 1088
Hardy flowers for June..... 1034
Hardy flowers for May..... 932
Hardy flowers for midsummer.....1158
Harrisii, potting..... 1230
Harrisii splitting 718
Hartford, Conn..... 826, 1048
Heating apparatus..... 1013
Heating pipes..... 402
Heating, questions about 1054
Helianthus multiflorus..... 1088
Helianthus nanus..... 855
Heliconia illustris rubricaulis.....1137
Hinsdale, a visit to 258
Hippeastrum brachyandrum 934
Historical reminiscences of Chicago trade 1205
*Holiday decorations..... 493
*Hollyhock, blight of..... 556
Hollyhock disease..... 694
*Hollyhock diseases..... 556
*Hollyhock, leaf spot..... 556
Hollyhocks, planting..... 855
Hollyhocks, sowing..... 54
Hops in soil..... 212
Horticultural congress banquet..... 57
Horticultural congress, the. 14, 36
Horticultural exhibitions; how to make them successful..... 31
Horticulture at the fair..... 853
Horticulture, possibilities in.... 535
Horticulture vs. engineering.... .. 1240
Hotbeds, plants for..... 907
Hot water under pressure 212, 580, 703, 954, 1013.
*Howard, Prof L. O..... 1211
*How to make "rubbers" break..... 125
Humboldt park, Chicago 1009
*Humboldt Park conservatories 61
*Hyacinths and tulips..... 934
Hyacinths, Dutch..... 413
Hyacinths, Roman..... 1230
Hyacinths, miniature Dutch.....1230
Hybridization, benefits and results .. 81
Hydrangeas 704
Hydrangeas, forcing..... 453
Hydranges for summer sale..... 963
Hydrangeas, lifting... 277
Hydrangeas, planting out. 1060
Hydrangeas, propagating..... 579
Hydrangeas, topdressing..... 837

I

Ilex verticillata..... 534
Illustrations, our.....309, 338, 1054
Immortelles..... 238
Indianapolis 195, 244, 360, 546, 612, 892, 1006, 1141, 1242
Indianapolis floral festival..... 391
Influence of flower shows..... 985
Injury to plant by dog..... 44
Inofohibo crnfwypemfwypppuu 1039
Insects affecting violets..... 448
Insurance, fire 110, 146, 206, 224
Interesting questions..... 946
Ipomæa mexicana..... 881
Ivy geranium, propagating 105

J

Jackson park, Chicago.....1036
*Japanese floral arrangements 44
Jenkintown, Pa..... 1067
Judges, a judgment on 1037
Judging at Toronto show..... 212
Judging floral arrangements..... 475

K

Kalosanthes..... 389
Kalosanthes coccinea 211
Kansas City, Mo..... 1237
Keeping worms out of pots 682
Kentias..... 124
Kentias, germinating..... 102

L

Labor saving devices..... 9
Lælia Latonl 1110
Lælias 232
Lælio-Cattleya Amesiana.....1258
Lælio-Cattleya Ingrami.....1258
Lælio-Cattleya Phœbe 1110
*Lagerstromia indica alba 85
Lake Forest..... 905
Lancaster, Pa 460
*Language of flowers..... 618
Laredo, Texas 682
Lasiandra macrantha..... 390
Latanias..... 191
Latania Verschaffeltii..... 458
Lathyrus grandiflorus 1088
Leaf bug, yellow lined..... 1062
Legal decisions, recent 66, 101, 182, 270
Legal pointers..... 670, 673
Lenox, Mass.....1033, 1126, 1208
Liability of express co... 812
Licuala grandis..... 458
Lilac, forcing 453, 623
Lilies, aphis on..... 413
Lilies, Bermuda 598
Lilies for Easter..... 493
Lilium Harrisii..... 1033
Lilies, potting 413
Lilium lancifolium.....372, 558, 1257
Lilium nepalense..... 257
Lilliums in summer.... 1114
Lily blooms, counting..... 862
*Lily of the valley 759
Lincoln Park, aquatics at..... 122
Lincoln Park, Chicago..... 1009
Linum trigynum 458
Livistona chinensis aurea..... 458
Lobelia, propagating 453
Locust, seventeen year..... 1154
London seed association..... 1194
Look out for him 1250
Lophospermum, sowing..... 578
Losing game, a.. 1026
Louisville, Ky..... 242
Love of flowers among the people, how to increase 14, 32, 33
Luculia gratissima..... 211

M

Madison, N. J..... 1066
*Maples, dwarfed Japanese 13
Maranta Fascinator..... 934
Marblehead, Mass..... 160
Market, the..... 1011
Mass. Hort. Society.....121, 174, 578, 614
Mass. Hort. Society spring show..... 836
Mealy bug..... 322
Mealy bug on coleus..... 963
Men, how many to employ..... 760
*Menispermum canadense.... 535
Meyenia erecta..... 390
Midsummer hardy flowers.... 1158
Mignonette as I grow it 101
Mignonette, damping off..... 101
Mignonette, potting..... 101
Mignonette, sowing..... 101, 578
Mignonette, time of sowing..... 1257
*Miltonia vexillaria... 1059
Miltoniopsis Bleui nobilis..... 934
*Miltoniopsis Bleui splendens.....1086
Milwaukee..... 397, 410
Minneapolis, Minn 186, 972
Miscellaneous notes..... 204
Miscellaneous sessonable hints 37, 64, 105 124, 144, 189, 210, 232, 277, 322, 372, 413, 458 553, 499 516, 558, 578, 601, 682, 763, 857, 855 907, 963, 1012, 1060, 1114, 1137, 1230, 1257.
Misplaced generosity..... 1196
Missouri State Hort. Society..... 998
Mistakes, two little 881
*Model retail establishment, a 1034
Moisture tent, a... 277
Money vine, winter care 106
Montreal 498, 540, 561, 584, 692, 782, 784, 924 1004, 1166, 1215.
Musa aurantiaca..... 682
Mushroom, the new..... 657, 765
Mushrooms..... 373
Mushrooms and toadstools 174
Mushrooms, smuts on 961
Myron A. Hunt, funeral of 929

N

Narcissus blasting 1039
Narcissus, boxing..... 105
Nashua, N. H..... 1272
Nebraska seed report..... 1194
Negligence of express co..... 812
Nelumbium leaf miner..... 122
Neighborly courtesies..... 138
Nepenthes mixta..... 259
Nephrolepis exaltata..... *34, 907
Nephrolepis tuberosum 1137
Neriums..... 704
Nertera depressa..... 704
New Haven, Conn..... 833
New Orleans Hort. Society.....870, 1242
Newport, R. I..... 138, 1082
Newport, R. I., hail at..... 1211
News notes 113, 216, 239, 266, 354, 389, 398 404, 446, 480, 520, 574, 662, 860, 874, 939, 967 963, 1028, 1067, 1092, 1119, 1166, 1196, 1198, 1220 1238.
New York 16, 87, 106, 125, 147, 172, 192, 214 235, 260, 280, 322, 375, 394, 419, 439, 458, 476 498, 516, 558, 580, 603, 628, 660, 684, 705, 728 767, 808, 833, 857, 883, 909, 935, 965, 990, 1014 1040, 1063, 1090, 1116, 1139, 1165, 1188, 1214 1234.
*New York Florists' Club..... 554
New York, wholesale flower trade ... 1157
Notes by the way..... 257, 557
Nurserymen, Am. Association of.1004, 1089
Nursery trade..... 400
Nymphæa leaf miner. 122
Nymphæas, day-blooming..... 122
Nymphæas, hybrid..... 122
Nymphæas, Marliac's..... 122

O

Obituary—Bassler, Andrew.....1067
—Bridge, E. G 1264
—*Butz, Paul..... 859
—Dodwell E. S..... 482
—Gallup, Avery..... 522
—Guerineau, Louis..... 1118
—Guillot, J. B..... 262
—*Halliday, Robt. J.... 768
—*Hunt, Myron A..... 906
—Johnston, Robert..... 1191
—Lauer, A..... 859
—Lobb, Thomas..... 1067
—Low, Hugh..... 189
—McCrone, Robt..... 523
—Parkman, Francis..... 390
—Reese, David 1085
—Rose, John..... 685
—Tait, Thomas.... 440
—Thompson, Wm. Jr.... 118
—Verdier, Chas..... 144
Odontoglossum Krameri alba 716
One judge plan..... 1038
One judge system.....933, 963, 987, 1069
Oranges, Otabeite..... 599, 816
*Orchid grower's dream..... 1089
Orchid notes..... 1110
Orchids after cutting..... 500
Orchids, famous..... 1259
Orchids, florists'..... 232, 626
Orchids for cutting..... 438
*Orchids in caricature 1190
Orchids in Hicks Arnold collection.... 962
Orchids in summer..... 1137
Orchids, potting 570
Orchids, time of bloom..... 626
Orchids, time of growth..... 626
*Ornamental fruiting shrubs.. 534
Otabeite oranges..... 599, 816
Ottawa, Ont 561, 636, 708, 794, 835, 912
Outlook for the retail florist..... 1259

P

Packing and shipping cut flowers..... 961
Packing and shipping flowers..... 390
Packing boxes 390
Packing plants for shipment....1112, 1184
Pæonia festiva..... 1112
Pæonia officinalis 1112
Pæonia Whitti-ji..... 1112
Pæonies, keeping..... 1112
*Pæonies, marketing 1112
Palm growing for profit..... 191
*Palm leaf blight..... 260, *967
Palm notes..... 458
Palm seed, sowing..... 102

*Palm villa, New Orleans... 867
Palms for decorating 277
Palms, large 242
Pansies, sowing for winter 1231
Pansy seed, sowing 37
Park system, Cleveland 1161
Park system, Essex Co., N. J. 1161
Patent, floral design 100
Patents recently granted 81, 805, 1024
Pedigree or grade races in horticulture 38
*Pelargoniums for Easter 958
Pelargoniums in summer 1231
Pelargoniums, potting 232, 682
Pelargoniums, starting 413
Perennials, planting 855
Peristrophe 506
*Pettigrew, John A. 767
Petunias, shifting seedlings 702
Petunias, sowing 578
Petunias, propagating 145
Phalus amabilis 902
Phalus Cooksoni 902
Phalus Sanderiana 902
Philadelphia 20, 41, 64, 85, 106, 125, 146, 172, 193, 209, 214, 234, 260, 280, 322, 353, 394, 419, 438, 459, 477, 497, 518, 538, 559, 581, 602, 628, 656, 682, 706, 729, 786, 809, 832, 858, 882, 911, 935, 965, 991, 1017, 1039 1063, 1090, 1116, 1139, 1165, 1188, 1212, 1233, 1261.
Philodendrons 933
Phœnix canariensis 833
Phœnix Roebelenl 458
Phœnix rupicola 458
Phopoleblaste hexandra 682
Phrynium variegatum 579
Phyllanthus nivosus 555
Phyllotænium Lindenii 468
Picture, a lovely 594
*Pierson, F. R. Co., view of rose houses 1239
Pipes, heating 510
Piping 573
Piping for steam 746
Piping, greenhouse 1054
Pittsburg, Pa. 176, 978, 1002, 1017, 1042, 1078, 1130, 1150, 1214.
Pittsfield, Mass., 149, 397, 960, 982, 1002, 1237
Planting, construction of contract 807
Plant notes 704
*Plants, are they first-class 1189
Plants for boxes 1012
Plant shipments 1160
Pleasant day, a very 1088
Poinsettias in summer 1160
Poinsettias, starting 827
Poinsettias, stimulating 322
Poinsettias, summer care 37
Points for practical men 212
Primroses, general treatment 881
Primroses, potting 232
Profession, elevating the 288
Propagating house 1053
Propagating in April 762
Propagating in cocoa fibre 102
Propagation, notes on 102, 122
Proposed new associations, two 640
Protective Association, benefits of 95
Providence, R. I. 606
Prunus Pisardi, forcing 1059
Pteris palmata 141
Pteris Victoriæ 141
Puff ball, edible 184
Pyrethrums 1088
*Pyrus prunifolia 534

R

Reduction of seed duties 690
Remarkable case, a 952
Reminiscence, a horticultural 476
Review of a flower show 443
Rhododendron ciliatum 625
Rhododendron ferrugineum 705
Rhododendron jasminiflorum 1137
Rhododendron Smirnowi 1137
Rhododendron Thibaudianum 625
Rhododendrons, forcing 413
Rhododendrons, greenhouse 625
Rhododendrons, hardy 705
Ricinus Zanzibarensis 691
Riley, Prof. resigns 887
Rochester 96
Rogiera gratissima 211
Romans, mulching 322
Rose—*Am. Beauty, house of 1183
—American Perfection 213
—Annie Wood 1208
—Bridesmaid 905
—Capt. Haywood 1208
—Chas. Gater 1208
—Clothilde Soupert 453
—Crimson Rambler 757
—Gloire de Margottin 1208
—Gustave Piganeau 1208
—Her Majesty, pruning 1208
—Kaiserin Augusta Victoria 806
—Lady Henry Grosvener 1208
—Lorna Doone 1137
—Mme. Caroline Testout 258, 1253
—Marchioness of Londonderry 1208
—Margaret Boudet 1208
—Margaret Dickson 1208
—Marquise de Castellane 1208
—Meteor 212
—Michael H. Welch 1208
—Mrs. Harkness 1208
—Mrs. Paul 1208
—*Niphetos, climbing 762
—Paul's Early Blush 1208
—Rodocanachi 1208
—Senator McNaughton 757
—Spenser 1208
—Victor Hugo 1208
—Zenobia 1208
Roses—American seedlings 951
—*Another pest 1058
—Beds and benches 727
—Benches and solid beds 473
—Carrying over 982
—Chicago notes 473, 626
—Crossing 474
—Damping off 124
—Destroying aphis 366
—Diseases attacking roses 166
—Dropping buds 822
—Forcing C. Soupert 453
—For cut bloom in winter 727
—*Gontier, what can be done with 769
—Grubs attacking roses 1230
—Hybrids in boxes 474, 806
—Hybrid teas 1229
—In Kansas 534
—In pots 679
—In summer 1209
—Jacqueminot, forcing 626
—La France and Perle, carrying over 962
—Mme. Pierre Guillot in Chicago 626
—Mildew, remedies for 166
—Most profitable varieties 727
—New southern 213
—Notes 414
—Planting 11
—Planting under glass 1165
—Potting 11
—Propagating 11
—Propagating Beauty 601
—Red spider 124
—Rose growing, science and facts of successful 11
—*Roses at Toronto 475, 477
—Seasonable hints 144
—Seasonable notes 124
—Soil 11
—Soil for hybrid teas 1229
—Spotted foliage 373
—Stimulants 11
Rose and strawberry show 1138
Rose society, American 105
Rubbers, propagating 907

S

St. Louis 48, 74, 90, 107, 126, 148, 174, 194 215, 236, 375, 396, 428, 459, 470, 488, 502, 519 539, 560, 582, 604, 630, 638, 656, 684, 708, 740 769, 812, 834, 862, 886, 912, 938, 974, 1048 1040, 1065, 1100, 1117, 1140, 1166, 1188, 1214 1236, 1262.
St. Louis Florists' Bowling Club 896
St. Louis to Atlantic City 1264
St. Paul, Minn. 246, 262, 282, 382, 418, 450 503, 605, 698, 738, 835, 872, 922, 948, 992, 1017 1050, 1066, 1091, 1118, 1152, 1191, 1226.
St. Joseph, Mo 1124
Sanchezia nobilis 555
San Francisco, 223, 924, 1042, 1076, 1128
Santolina incana 144
Secret out, the 448
Seed notes, Phila 714
Seed report, Neb 1072, 1194
Seeds, import duties 776
Seedsmen meet 242
Seedsmen's convention, the 1038
Seed trade 18, 92, 112, 154, 178, 220, 240, 266 284, 326, 354, 378, 402, 424, 444, 464, 484, 524 566, 610, 634, 664, 690, 714, 738, 776, 818, 866 890, 916, 944, 972, 998, 1022, 1046, 1072, 1098 1122, 1170, 1218, 1266.
Seed trade association 664
Seed trade convention 38
Seed trade, knowledge in the 132
Seed shop, government 504
Seeds, Wilson bill 566
Sempervivums 555
September color in hardy plants 167
Seventeen year locust 1154
Shading 855
Shipments, plant 1160
Shipping plants 1112
Short span to the south 258, 473
Shrubs of Toronto's lawns 904
Shrubs, trimming 832
Sieana atro-purpurea 935
Sing'e pipe system 573, 616, *962
Size of boiler 1054
Slugs and snails 890
Smilax, mulching 516
Smilax sowing 453
Snails on mushrooms 961
Soft wooded plants in spring 907
Something important 162
Special edition notes 208
Specialties in the business 957
Spirea, forcing 453
Springfield, Mass. 158, 544, 1242
Spring plant trade 1181
Staphylea colchica 558, 679
Stock house, arrangement of 757
Store management, hints on 1134
Storing plants, charge for 890
Strobilanthes Dyerianus 757
Study up 1216
*Sobralia, blight of 766
Society of American Florists 564, 1011, 1215
—*Bowling contest 34
—Convention notes 29
—Executive meeting 636
—*Group photograph at St. Louis 31
—I want to know 30
—Officers elected 29
—President's address 2
—St. Louis convention 1
—Secretary's report 4
—The dark side 34
—Trade exhibit at St. Louis 34
—Westward, Ho 5
Solanums 704
Some "Poutry" 952
Sophro-Cattleya Ratemaniana 1110
Sophro-Cattleya Veitchii 881
Sophro-Lælio Veitchii 1110
Suit, a funny 1148
Surplus, to move the 992
Swainsona galegifolia alba 1060
Sweet peas 1022
Sweet peas at their best 1159
Sweet peas, California 1159
Sweet peas, forcing 277, 515
Sweet peas, fresh information regarding 103
Sweet peas, how to force 373
Sweet peas in California 1061
Sweet peas, sowing 837
*Sweet peas under glass 1236
Syracuse, N. Y. 528

T

Table decoration *415, *417, *419, *455
Tariff on seed 619
*Tarnished plant bug 168
Tar paper in greenhouses 1164
Telegraphic code, suggestions for 272
Telephone, our 623, 1308
Terrible danger discovered 302
Texas Seed Co., failure of 1122
Thermometer, electric 806
Thermostat, greenhouse 468
Tillandsia Lindenii 211
Toads in the greenhouse 1178, 1201
Tobacco, vaporizing 197
Toronto 52, 76, 114, 134, 148, 180, 196, 216, 248 262, 288, 328, 384, 440, 470, 478, 499, 519, 550 561, 586, 604, 669, 686, 714, 742, 762, 824, 854 868, 898, 912, 946, 976, 1000, 1016 1041, 1076 1094, 1117, 1140, 1168, 1192, 1214, 1234, 1272.
Toronto show, judging at 244
Toronto show, the 1232
Trade exhibit, the 926
Trading on death 1114
*Travelling greenhouse, a 1054
Trees for city use 805, 932, 1052
Trees, overhanging 255
*Tuberous begonias at World's Fair 283
Tulips after forcing 212
Tulips, boxing 105
Tulips for Christmas 413
Tulips, pink La Reine 680

U

Under the rose 1092
United States Nurseries spring show 706

V

Valley for Christmas 413
Valley, forcing 558, 600
Valley, growing for forcing 959
*Valiota purpurea 211
Variety in spring stock 554
*Vases and veranda boxes 143
*Vases, arrangement of 1133
*Vase, cast iron 107
*Vases, tiling 102
Verbena venosa 143
*Veranda boxes 123
Vinca, propagating 579
Violet disease 554
Violet, fresh information about 592
Violet Lady Hume Campbell 526, 600, 702
Violet pit 234
Violets 627, 1033
Violets, fostite on 882
Violets from cuttings 553
Violets, growing out of disease 840
Violets, liquid manure 554
Violets, mulching 553
Violets, poor root action 553
Violets, taking runners 895
Vine, a promising 233
Vivid imagination 226
*Von Sion, imperfect 1038

W

Wages 906
Washington 215, 396, 461, 499, 519, 537, 561, 583, 604, 629, 684, 814, 835, 883, 911, 1015, 1065, 1186.
Washington park, Chicago 1036
Watering 413
Water snails 1264
We all know her 850
*Wedding decorations at N. Y. 390
Wholesale flower trade 1157
Wilson bill, the 804
*Wire basket or stand 105
Wise policy, is it 1030
Wood ashes on benches 1164
Worchester, Mass., 111, 461, 530, 540, 674, 812, 846, 950, 1017, 1128, 1166, 1215, 1244.
World's Fair 13, 35, 84, 104, 170, 210, 236, 254, 292.
—*Arrangement of orchids and ferns 281
—Awards at 171
—*Basin of aquatics 173
—*Bed of Alphonse Bouvier canna 259
—Chrysanthemum show 253, 297, 310, 338.
—*Dreer's display 143
—*Fancy caladiums 279
—*Hardy plants 171
—*Old fashioned garden 173
—Out at the fair 238
—*Rose garden, corner in 167
—*Tuberous begonias 263
—*View in N. Y. greenhouse 83
—*View of canna display 257
World's fair, horticulture at 853
World's fair impressions 104
World's horticultural society 68
Worth striving for 1216
Would come through quick 1130
Zion gardens 800

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. IX **CHICAGO AND NEW YORK, AUGUST 10, 1893.** **No. 271**

THE AMERICAN FLORIST

Copyright 1893, by American Florist Company. Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.
322 Dearborn Street, Chicago.

Subscription, $1.00 a year. To Europe, $2.00.

Address all communications to

AMERICAN FLORIST COMPANY,
P. O. Drawer 164, CHICAGO.

Eastern Office: 67 Bromfield St., Boston.

SOCIETY OF AMERICAN FLORIST.

WM. R. SMITH, Washington, D. C., president; PROF. WM. TRELEASE, St. Louis, Mo., vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass, secretary; M. A. HUNT, Terre Haute, Ind., treasurer.

CONTENTS.

St. Louis convention 1
—President's address 2
—Report of secretary 4
Carnations 4
Westward, Ho! 5
Chrysanthemums—Bench grown chrysanthemums (with five illus) 6
Labor saving devices 9
Roses—Successful rose growing 11
Dwarfed Japanese maples (with illus) 13
The World's Fair 13
Increasing the love of flowers 14
The horticultural congress 14
New York 16
The seed trade 18
Philadelphia 20
Chicago 22
Foreign notes 24
Baltimore 26

Carnation Notes.

While nearly all the fungoid diseases affecting the carnation have been well studied and the results of the investigations printed in these pages, there is no class of diseases with which the grower is less familiar. The scientific descriptions are little understood by the florist and they need to be written up in a practical way. Unless a very close observer one would hardly recognise any of these troubles in their early stages. The spores are ever present in the atmosphere ready to attack the plant whenever the opportunity offers; but the beginning is so small as not to be recognizable excepting under the microscope. The two most important diseases of this class are known as spot and rust.

Spot seems to have accompanied the carnation in all its rambles. Wherever we find the carnation we find more or less spot. The plants will be free from it at times and at others it will be so bad as to destroy them. It is our belief that proper attention to the plants, keeping them in a thrifty growing condition, is the best preventive we can name. The spot is more the result of bad management and uncongenial surroundings, and naturally follows a weakened condition of the plant. W. R. SHELMIRE.

St. Louis Convention.

The ninth annual convention of the Society of American Florists opened at the Exposition Building, St. Louis, at 11:15 a. m. Wednesday, August 9. There were about four hundred members present. The hall was prettily decorated with bunting, plants and vases of flowers.

Mr. J. M. Jordan, on behalf of the St. Louis Florists' Club, opened the meeting with a few words of welcome, and expressed the hope that the society's stay would be pleasant and profitable. He said that, while the attendance might be less than at former meetings, still he saw in the upturned faces before him the intellect, the will and the ability to accomplish great things. He hoped that their deliberations would be free and full, and that the society would advance another step upon the ladder of floriculture and horticulture. He then introduced, as a representative citizen of St. Louis, one who had laid aside pressing official duties and waiting visitors to say a few words on the important subject before the convention—the Mayor of the city, Hon. Cyrus P. Walbridge.

Mayor Walbridge was received with great applause. He said that, in looking at a beautiful flower he had often wondered how it was possible for a single stem to absorb from the soil and and the air all the various colors in that flower and deposit them in such systematic perfection. He had often asked himself, "Where is this switchman who tells the purple where to go, what signal does he make to the crimson or the blue to take a certain track and stop at a certain place—who is the General Manager of this perfect, complicated system which never makes a mistake and never finds an open switch. [Applause.] Was there a florist here who could tell him—was there a botanist present who could answer? If compelled to do so, such a one would fall back on the answer of the father, when his infant son had reached the limit of parental knowledge, who was obliged to respond, 'God.'

"These representative men and women had not come here to listen to speech-making. A man must be presumptious indeed who would attempt to entertain with flowers of rhetoric the people whose lives are devoted to the cultivation of the [illegible] of God; he would [illegible] side of the but a man must be poor indeed [illegible] elements that make the man if he could not extend a cordial welcome to such people in the home of Henry Shaw." [Applause.] This welcome, the mayor said, he did now extend. In the name of the city he bid the visitors "God speed", the freedom of her gates he extended to them, concluding with the wish that they might be successful in their efforts to obtain a more effectual way to assist nature in her endeavors to beautify this world. [Cheers.]

The response to the mayor's words of welcome was made on behalf of the society by Mr. E. A. Seidewitz, of Baltimore. After saying that he scarcely knew what reply to make to these short and sweet words, he referred to the objections to meeting at St. Louis, unsuccessfully brought forward last year when the invitation to come here was extended. Chief among these was, that "St. Louis is hot." He thought if they had been told, "St. Louis is smoky," they would not have been disappointed. But behind the dark smoke he had found brightness and progress—a progressive city, to see which did an American good. St. Louis possessed another characteristic. Of all genuine symbols of welcome the handshake is the most significant; and the chairman of the committee on trade exhibits had given him (Seidewitz) an evidence of this on his arrival by one of those hand-shakes which made the visitor feel it came strong and direct from the heart. After hearing the mayor's greeting, the delegates felt more than satisfied they had come among a truly hospitable people. [Applause.]

"Although St. Louis is a city of comparatively recent date," continued the speaker, "we have only to look around to see at every step the evidences of progress, and we eastern people must admit that we have much to learn from our western brethren. As we were crossing the great bridge last night I realized that we were entering a city great in progress and industry; and when I reflect that men like Henry Shaw, of whom the mayor has spoken, have been natives of St. Louis I know that the city is one in which the love of horticulture has not declined."

These considerations the speaker believed were stimulants to the society to make its work, at the present meeting, exceptionally creditable and its progress specially marked. [Applause.] Referring particularly to one phase of the address, which he thought was one that all ought to take to heart, he said: "All the members of this society, I believe, are patriotic Americans; we have a kindly feeling for the men across the water engaged in the same profession in which we are engaged; yet, if nothing else, patriotic pride and correct ideas of political economy should stimulate [illegible] our own [illegible] and those [illegible] and to [illegible] stand [illegible] hardly [illegible] [Long continued applause.] This [illegible] simply [illegible] a country [illegible] name. This [illegible] Union within which the climatic conditions are such that, in fact, everything we now import from across the water can be produced within our territorial limits."

The speaker went on to say that in the matter of Roman hyacinths, for instance, the enormous amount of money now sent to France could be saved through home production. The present financial depression and the balance of trade being turned against us had been supposed to

be due to the sending abroad of too much money. The speaker thought this was a contributing cause and that if members of the society could do something to stimulate the production of American hyacinths on this side of the water it behooved them to do it. [Applause.] He also eloquently commended the lofty sentiment of the address, its presentation of the æsthetic side of the business and its references to the necessity for a higher estimate of it and the qualifications necessary for it.

Mr. Jordan then introduced President Smith, who assumed the chair and made his annual address. The address was listened to with the closest attention and at its conclusion the applause was great and prolonged.

A motion was at once offered by Mr. John Burton that the president's recommendation regarding a committee of five to obtain statistics of import and export trade in goods pertaining to ornamental horticulture be adopted, and the motion was unanimously carried.

The secretary's report was then read by Secretary Stewart. Treasurer Hunt next followed with his annual report.

The call for reports of special committees brought up Mr. W. A. Manda for the committee on medals, who said that the dies were all ready and imprints were ready to be shown. Mr. E. G. Hill next addressed the meeting in a few words of commendation of the president's speech.

The afternoon was devoted to a very enjoyable ride through the most beautiful sections of the city, a very large number of members participating, about fifty carriages and wagonettes being required to hold the party. The trip included Lafayette Park, Compton Hill Reservoir grounds, Tower Grove Park and Forest Park. A photograph of the party was taken at the latter place.

At Wednesday evening's session Mr. C. H. Allen's essay on carnations was read, after which followed an animated discussion on same by Messrs. Fred Dorner, Jr., E. G. Hill and others.

The question box was then opened and several interesting subjects came up for treatment, regarding which detailed report will appear in a later issue.

Mr. Elmer D. Smith's essay, under the auspices of the American Chrysanthemum Society, was the next thing on the program. Mr. Smith being prevented by sickness from attending the sessions, his paper, a very comprehensive one (see elsewhere in this issue), was read by Mr. John Thorpe.

The annual meeting of the American Chrysanthemum Society followed. The committee appointed last year presented a new constitution and by-laws for consideration and the same were adopted. The annual election of officers resulted as follows: Elijah A. Wood, West Newton, Mass., president; E. G. Hill, Richmond, Ind., vice-president; E. D. Smith, Adrian, Mich., secretary; M. A. Hunt, Terre Haute, Ind., treasurer. The next annual meeting will be held [illegible] second week in Novem[illegible]

Treasurer Hunt's [illegible] ance of $2,125 in the treasury of the S. A. F.

Among the notable visitors at the convention were Geo. Nicholson, curator of the Royal Botanic Gardens, Kew, England, Prof. Dr. L. Wittmack, Berlin, Germany; Ludwig Schiller, Germany; M. Lemoine, Paris; E. H. Krelage, Holland.

At the morning session Thursday Robert Kift, on behalf of Philadelphia, nominated Atlantic, N. J., for the next convention. John Burton seconded the nomination. No other nomination being made Atlantic City was the unanimous choice.

Nomination of officers being next in order, E. G. Gillett nominated M. A. Hunt of Terre Haute, Ind.; J. M. Jordan nominated J. T. Anthony of Chicago; D. B. Long nominated John Burton of Philadelphia. Mr. Hunt declined the nomination for president with thanks for honor conferred. For vice-president Robert Kift was nominated by W. K. Harris; for secretary Wm. J. Stewart, nominated by John Thorpe, and for treasurer M. A. Hunt was nominated by J. M. Jordan.

R. F. Tesson then read his essay on rose growing (see elsewhere in this issue). The discussion was quite animated and was participated in by Messrs. Hunt, Turnley, Dillon, Jordan, Coles and Elliott.

P. O'Mara reported for the committee on express rates, and on motion of Mr. Hill a hearty vote of thanks was given the committee for its efficient services.

John Burton withdrew his name as candidate for president.

Thursday afternoon a large number availed themselves of the opportunity to visit the Missouri Botanical Gardens and inspect the grand collection of rare plants. They were met at the entrance by Professor Trelease, and after being escorted through the grounds were invited by the trustees of the garden to partake of a tempting lunch, which was spread on tables under the trees. A group photograph was taken afterwards on the lawn. Before departing three cheers were given for Prof. Trelease, who reluctantly responded to repeated calls with a few complimentary words.

At the evening session W. G. Bertermann's essay on horticultural exhibitions was read by the secretary and was well discussed by Messrs. Seidewitz, Huntsman, Anthony and Hill. A vote of thanks was extended to Mr. Bertermann.

Mr. Gurney's essay, "Old and neglected plants worthy of more general use in outdoor decoration," was then read. President Smith then called upon Mr. George Nicholson of Kew Gardens, whom he introduced as a man whose name is a household word in America. Mr. Nicholson spoke in high praise of America and Americans and briefly expressed his sympathy with the views expressed by Mr. Gurney. The paper was further discussed by E. H. Michel and J. C. Vaughan.

Robert Craig then read his response to the question, how to increase the love of flowers among the people. Mr. Craig's paper was received with great applause, J. M. Jordan then call the Hail Association to order, and the annual meeting of that body was held.

President's Address.

LADIES AND GENTLEMAN, MEMBERS OF THE SOCIETY OF AMERICAN FLORISTS, AND FRIENDS: Custom makes it a duty for your President to make you an address—a sort of President's message, if you will. Well, then, first let us congratulate ourselves, on this our 9th anniversary, as to [illegible] vigorous condition, which the reports of your officers will show.

You will permit me to ask a question, asked, I know, at some previous conventions, but of a different character from this one, however. What are we here for? My answer is, we are here to increase and diffuse a knowledge of ornamental horticulture, in all its various subdivisions, among the sons and daughters of men. A higher mission hath no one. To elevate the esthetic soul of a people, to place before them things of beauty, joys forever, as Keats has grandly phrased it. The occupation is worthy of the intellect it has secured. The genius of a Thorpe, the intellectual powers of Craig and Hill, the enthusiasm of May and Jordan, the business tact of Norton and Dean, our predecessors in office, would add lustre to any profession. There are many others, but time will not permit us to mention them. As we look back through the short vista of ten years, what noble men have left us to find their reward in a higher evolved condition! The image and shadow makers receive due praise and profit of which we grudge them not; but now the workmen and artists who present to the mind's eye of the people the beautiful reality—the thing itself—are they not entitled to more credit than they have ever claimed?

Ralph Waldo Emerson, one of America's greatest thinkers, says, "Flowers were made for the service of the soul." What food for thought there is in these words! We all know that there are many minds so dull in the esthetic part of their nature that, as Wordsworth says, "A primrose by a river brim, a yellow primrose was to him, and it was nothing more!"

We once had occasion in our official capacity to escort a party of our selected great men sent to Congress, through the conservatories at Washington. One of them, a narrow utilitarian crank, when he came to the Orchid House, said, "What are the darned things worth anyhow?" Our remark was, "My dear sir, if the Great Architect of the universe had been studying economy when he made you, He would have put you on four feet and fed you on grass." My friend, James A. McKenzie, of Kentucky, then in Congress, now our Minister to Peru, carried the joke somewhat further, but we will leave that to the imagination. We have but little sympathy with the purely utilitarian school. We pity those who live but to eat, but glory in those who eat to live, and find their soul's food in the beauty of the daisy and the heather, the shamrock and the rose, the chrysanthemum and the carnation, the lily and the orchid; not that the latter should be behind iron bars, as was suggested at a previous meeting, unless it is a silver or even a golden bar to confine it on the breast of beauty's self—lovely woman.

Buckle says in his "Influence of Women on the Progress of Knowledge,"

"Women, by encouraging in men deductive habits of thought, have rendered an immense though unconscious service to the progress of knowledge, by preventing scientific investigators from being as exclusively inductive as they would otherwise be."

He also says, farther on: "*Those among you who are interested in botany* are aware that the highest morphological generalization we possess respecting plants is the great law of metamorphosis according to which the stamens, pistils, corollas, bracts, petals, and so forth, various parts of every plant, are simply modified leaves. It is now known that these various parts—different in shape, different in color, and different in function—are successive stages of the leaf epochs, as it were, of its history. The question naturally arises, who made this discovery? Was it some inductive investigator, who had spent years in experiments and minute observations of plants, and who, with indefatigable industry, had collected them, classified them, given them hard names, dried them, laid them up in his herbarium, that he might at leisure study their structure and rise to their laws? Not so. The discovery was

made by Goethe, the greatest poet Germany has produced, and one of the greatest the world has ever seen. And he made it, not in spite of being a poet, but because he was a poet. It was his brilliant imagination, his passion for beauty, and his exquisite conception of form, which supplied him with ideas, from which reasoning, deductively, he arrived at conclusions *by descent, not by ascent.* When the discovery was announced by Goethe, the botanists not only rejected it, but were filled with wrath at the notion of a poet invading their territory. What! a man who made verses and wrote plays, a mere man of imagination, a poor creature who knew nothing of facts, who had not even used the microscope, who had made no great experiments on the growth of plants, was he to enter the sacred precincts of physical science, and give himself out as a philosopher? It was too absurd. But Goethe, who had thrown his idea upon the world, could afford to wait and abide his time."

The transmutation of parts as indicated in the foregoing extract tells us how, and by what means, Madam Nature rewards Madam Industry with those double flowers which fill with delight all lovers of the beautiful.

We are fortunate in having selected as our place of meeting the city of St. Louis—a city adopted as his home, many years ago, by a young Englishman who, by patient, honest industry guided by good judgment, gathered a handsome fortune in its midst. He, with patriotic ardor, intelligence, and gratitude in his heart, selected this city for the establishment and liberal endowment of the Missouri Botanic Garden. It is hoped men of means in other cities will follow his illustrious example. When deliberating on the matter he called to his council two great men of whom this country will always be proud—Prof. Spencer F. Baird, of the Smithsonian Institution, and Dr. Asa Gray, of Cambridge, Mass. It was my privilege to share their friendship for nearly forty years. Words fail me to express my exalted opinion of them both. Among other good advice given to Mr. Shaw, they recommended Prof. Trelease as Director, and I am satisfied from what I have seen that our kind, genial Vice-President is the right man in the right place.

"If departed ghosts are e're permitted to review the world," Mr Shaw will be at Tower Grove on Thursday next, and return delighted to that heaven where the spirits go "that love their fellowmen."

An erudite and extra-well-read friend of mine says, "It is written in the books that next to the Christian religion the study of the vegetable kingdom has done more and is calculated to do more for the civilization of mankind than any other pursuit of knowledge." By a little use of the imagination, viewing the subject in its various correlations, we can better appreciate the value of Mr. Shaw's great gift to the people of Missouri—and to the world for that matter.

One of the rulers in Rome, just before the advent of Christ, asked Virgil to write a poem to make agriculture popular—hence the Georgics.

Every thinking ruler everywhere since has desired the same thing. We have a suggestion to make on this subject, viz: Remove the compost heap from the front yard; introduce in its stead a little ornamental horticulture. Feed the esthetic nature of the inmates of your home. Your brightest boys and girls will not be so anxious to leave it if the nobler part of their nature is fed. If they do leave home they will have the fondest recollection of their earlier days, and in all probability will return to rural pursuits in the afternoon of life. The child that smiles so sweetly on its mother's knee, becomes a picture of delight as you offer it a flower; the urchin on the street who begs one shows the latent love for the beautiful, which, alas! is too often neglected. How much of this is due to heredity, how much is innate, we will leave to Dalton and other scientists to determine.

I presume most of you have read the able essay of Mr. Farquhar, in our last year's report, about missionary work among children. We sometimes hear of a glut in the flower market. We would like to suggest that flowers be given to the children and the hospitals—to those who can't buy, rather than to those who won't.

We had hoped and fully expected to conduct this meeting under the inspiriting influence and guidance of a national charter, but "the best laid schemes o' mice and men gang aft aglee." With a unanimous vote in the United States Senate, and many of the ablest men in that body taking a warm, kindly interest in its passage; with the chairman of the Committee on Agriculture, to whom the bill was referred by the House, actively and earnestly trying in every way to pass it, backed by his committee, it nevertheless failed. This Society is under a deep debt of gratitude to Representative Wm. H. Hatch, of this great State, for his untiring efforts in our behalf. It is only a question of time, however, before we have a charter, and necessary arrangements for the change to a chartered society must be made at this meeting. A few statistics will show how important an industry the Society represents.

The census report for 1891 shows that there are 4,659 floral establishments in the United States, employing 16,847 men and 1,958 women. Their fuel costs over $1,000,000; their advertising about the same—that is, independent of catalogues; they pay for postage $767,438.21; for freight and expressage $1,088,612.41. The sales of cut flowers, hardy shrubs, roses, and other miscellaneous ornamental plants amount to $26,211,805.77. It is safe to say there is an increase of 20 per cent. on the above figures since then. The report prepared by J. H. Hale for the Census Office has many other interesting items on the subject of commercial floriculture. It does full justice to the S. A. F.

We made application to the State and Treasury Departments at Washington for correct information as to imports. While acknowledging the kind courtesies of the officers of both departments, owing to imperfect classification of subjects, no proper division being made between ornamental and useful articles, we nevertheless got enough to make the statement that we send to the Netherlands, Germany, England, France, Belgium, and Bermuda over $1,750,372 for bulbs, plants and seeds. It becomes a question for every patriotic American to consider how much of this sum can we retain on this side of the Atlantic. We seek no special protection, Intellect and industry with cheap land as against cheap labor should be our agents. This Society, socially, and by the aid of printer's ink, diffusing proper information as to what is wanted and how to grow it, will soon secure the desired result. California has already taken up the subject of producing such seeds, bulbs and plants as her climate is suitable for. On Long Island, in the State of New York, we saw, two weeks ago, on one estate alone, ninety acres of fine, healthy gladiolus—millions of bulbs. To the Long Island florists, we are told, is due the credit that the gladiolus has been changed from an import to an export item of trade. Ten years ago they were all imported. Their price has been reduced to $10 per 1,000. I am told by experts that many millions of tuberose bulbs are grown in North Carolina and several other Southern States for domestic and export business. A few years ago they were all imported—their price $10 per thousand. I would like to call the attention of growers to the millions of Roman hyacinths used, and ask, Can't they be grown somewhere on this side of the Atlantic?

The character of the buildings erected is another evidence of the progress of floriculture. A leading firm has informed me that they have erected 40 ranges of greenhouses during the last twelve months, embracing 250,000 square feet of glass surface.

I would earnestly recommend a Committee on Statistics to be formed, to consist of five or more members, and that each State Vice-President be *ex officio* a member of the same. The value of such a committee cannot be over-estimated. A high official in the State Department made the suggestion that we *prepare* a set of interrogatories, and they will send them to our consuls for the much needed correct information as to what we purchase abroad. Your committee could do this and gather other valuable statistical information, particularly as to the general progress of the profession, etc.

Your Committee on Nomenclature has been of great advantage to the trade; it has greatly purified the catalogues; its very existence has a beneficial result. "A chiel's amang you takin' notes, and, faith, he'll prent them," acts as a deterrent to many an exaggerated description.

A word about chrysanthemums. Whether the society of that name should be an allied but separate organization or a section of the chartered Society of American Florists should receive your thoughtful, serious consideration. The society has done wonders. When Mr. Thorpe wrote me a friendly letter, about nine years ago, telling me, in his usual enthusiastic way, that the Chrysanthemum was, as he styled it, "the coming flower," I was a doubting Thomas, continuing so for some years until I saw at Madison Square Garden a vase with six flowers of Ivory. My enthusiasm led me to visit that vase again and again, with friends and without them. I invited Mr. Wm. K. Harris, not then but now President of the chrysanthemum Society, to take a look at it, when he, blushing modestly, informed me that he was the raiser of it; that it was his child. Never will the memory of that beautiful vase pass from me; it will forever be a day-dream.

We all like to ask questions, as witness our question-box. Is it not possible to reduce the long list of chrysanthemums? S[illegible] by dropping some no longer near the [illegible] and those so near alike that [illegible]y are hardly entitled to a separate name. This is simply a suggestion. Think of these things. We would like to make the same suggestion to the newly formed Carnation Society. Make every effort to keep your list as short as possible. Whether you form yourself into a separate allied association or become a section of our chartered Society, it is our duty to help you, our little infant, along; you are a child of great promise.

For the Hail Association we would like to say a word. It has had lively agents

in the shape of large hailstones doing sad work amongst plants and glass lately. Such as are not insured should consider the subject. You will learn all about the Florist's Protective Association from the address on that subject to be delivered at this meeting.

We are under great obligation to the press of the country, especially those who disseminate correct information on our topics. To them we make a polite bow, and say, Thank you. To the papers connected with the trade and those devoted to ornamental horticulture in its various departments we would say, God speed you; may you live long and prosper.

We come now to the subject of subjects at present engrossing public attention—the World's Fair, now being held in an adjoining city. Not having been there yet, I cannot speak of my own knowledge, but I have an abiding faith in the skill and ingenuity of Mr. Thorpe.

Mr. Craig, than whom there is no better judge, says:

"The Directors of the Exhibition show a just appreciation of the importance of decorative horticulture when they provided the magnificent building known as Horticultural Hall, which, with the Wooded Island, has been a source of the greatest interest and delight to the throngs of visitors; no part of the great exhibition has been more constantly crowded, and every feature has been enjoyed. First, the chrysanthemums last fall; then the winter months, when the other departments were almost desolate, were cheered with grand displays of primulas, cyclamens, cinerarias, calceolarias, etc., in rapid succession, and the interest will continue until the Queen of Autumn again presides over the closing festivities."

I have said nothing as yet about the great work our Society has done since its organization. As artists and cultivators the florist of to-day is so superior in most things to ten years ago that the only comparison I can find is as light to darkness. Were I to go back forty years and describe the bouquet, flowers lashed to a stick—next came broom-straws, paper frills, toothpicks, etc.—how all this change came about would take too long to tell. We can only say, I think, the peculiar people living in Boston had something to do with it. To-day the artistic presentation of flowers to customers receives the most careful study. The men in the advance on this subject have, by pen and pencil in the horticultural press, rendered great service to art in its highest sense. All over the country this change has taken place. It is partly—I may say chiefly—due to the annual gathering of the S. A. F. Such members as stay at home thinking they get all in the report are very much mistaken.

The intellectual side dishes are rich and rare—the opportunity to glean ideas from intelligent men on the excursion who would shrink from writing an essay; the aside discussion of the subject up for debate; the grand opportunity to see face to face those you deal with, whose books or articles you read from time to time. An old adage quoted by President Craig in his Chicago address I will repeat: "When you go from home you go to school." He adds, "Those who travel with open eyes can always learn something."

To young men of the profession I would say never miss this golden opportunity to measure yourself. Self-examination is a grand improver of the mind; confess to one another; seek as companions those who will improve you or be improved by you; enjoy the feast of reason and flow of soul these occasions always present. They are red-letter times in my memory, devoted, as I have been, from childhood's early days to my profession. I never come to our meetings without great benefit. This age of specialists makes it especially an age of progress. The orchid, the rose, the palm, the fern, and the many other plants and flowers that have been made specialties of by many different men, all mingling together on these occasions, presents an opportunity for improvements for young and old that I, for one, would dislike to lose. I love my occupation. I think no one should engage in it who does not. It is, as I have said before, one of the grandest pursuits on earth.

The occasional sneer of gilt-edge mediocrity that "he is only a gardener" has been grandly answered by a gardener's son, my prophet, priest and king—Robert Burns—in his glorious declaration of independence. That

> 'The rank is but the guinea-stamp—
> The man's the gowd for a' that.
> * * * * * *
> The honest man, though e'er sae puir,
> Is king o' men, for a' that.
> * * * * * *
> Then let us pray, that come it may,
> As come it will, for a' that,
> That sense and worth o'er a' the earth,
> May bear the gree, and a' that."

Young men, look to it. You have a grand, elevating and ennobling profession. You can aid in "preserving the dignity of man with soul erect."

The American gardener of the future, if manly in his character, will stand up a "Triton among the minnows," engaged in preparing the soul of the people for that higher evolution where hope points to eternal bliss and happiness. It shall soon cease to be the boast that ancestors were successful robbers or butchers of men, but that the glory of our ancestral tree, past, present and future, will be that we advanced the love for the beautiful. Our creed is: "This world is full of beauty, as other worlds above. O, if man would do his duty and fill it full of love," then would come the millennial period, when, in the words of the grand poet-prophet, Isaiah, "They shall beat their swords into plowshares and their spears into pruning hooks; nations shall not lift swords against nations, neither shall they learn war any more."

When beauty, love and truth are the supreme rulers then this earth will be an Eden.

Report of Secretary Stewart.

The eighth annual convention of the Society of American Florists, which was held at Washington one year ago, was one of the most satisfactory and in some respects the most notable on record.

A location so convenient to the great horticultural centers, together with the numerous attractions to be found in the Capitol City, formed a combination which would naturally draw together a large number of visitors but might hardly be expected to ensure a good attendance at the sessions, in fact the reverse might reasonably be looked for. So it is gratifying to record that notwithstanding the extent of the diversions offered by the City of Washington itself and provided by the generosity of our hospitable hosts, the National Gardeners' Club, the sessions were the largest and most uniformly attended in the society's history. The essays were all good and the various subjects were discussed with intelligence and ability, as a perusal of the published report will show. The trade exhibit was the first since the adoption of the new regulations, the value of which was apparent in the completeness of the arrangements and the absence of all dissatisfaction. Twenty-one certificates of merit were awarded by the judges. One each by the committee on bulbs and seeds and on florists' supplies, two for mechanical appliances, four by the cut flower committee, six by the plant committee, and seven for miscellaneous exhibits.

The executive committee held its annual meeting in this city last January, when many matters pertaining to the welfare of the society were considered and the general plan for this convention was mapped out. The finances were found to be in good shape and the general condition of the society prosperous. The extent to which the so-called auxiliary societies should be accorded participation in our sessions was considered at length, and in response to what seemed to be a general desire the new departure indicated in our program for this meeting was adopted as an experiment. Two important special committees that will make their report at this session have been active and the arrangement effected by one of them, especially the committee on express rates on plants, etc., is regarded by many as among the most valuable services rendered to the trade in general by the Society of American Florists.

The number of members paying dues for 1892 was 829, of which number 174 were new accessions and 22 were former members reinstated on payment of arrearages. The new members are credited as follows: To California, Georgia, Kansas, Louisiana, Maine, Tennessee, Vermont, West Virginia, Quebec and Japan one each; Connecticut, Kentucky, Ontario and Bermuda two each; North Carolina and Wisconsin three each; Iowa four; Illinois and Indiana five each; Missouri six; Virginia seven; New Jersey eight; Ohio nine; District of Columbia and Massachusetts eleven each; Maryland twenty; New York twenty-six; Pennsylvania thirty-eight. The number of delinquents suspended for non-payment of dues was 214, and the number of resignations during the year was 40.

We have lost four members by death since our last meeting. E. N. McLaughlin, of Boston, died April 1, 1893; Lucius T. Peck, of Boston, April 10, 1893; Thomas Lawrance, of Ogdensburg, N. Y., June 27, 1893, and J. Enos Dickerman, of Calais, Me., July 17, 1893. It is sad to lose even one of our members by death. But in view of the average annual death rate in an organization as large as this we have cause for congratulation and thankfulness that our loss during the past year has been numerically so small. Let us hope that a kind Providence will continue to so favor us and permit us to enjoy for many years to come the pleasure of meeting the old familiar faces and exchanging those fraternal greetings which have come to mean so much to us in these annual gatherings.

Carnations.

BY C. H. ALLEN.

[*Read before the Society of American Florists at the St. Louis convention.*]

MR. PRESIDENT, LADIES AND GENTLEMEN:—The history of the carnation—its value to the trade, the diseases to which it is subject and the remedies for the same—have been so frequently and ably discussed by its specialists that, without going over the same series of facts and incidents pertaining to propagation and

development, there is but little to be said. It may be taken without question that the florists from every section of our country, honored as they are by the presence of those from other countries with mutual interests, are not here assembled to hear echoes of past experiences, but to hear sounded some new note in the scale of culture, or in the line of development of the flower for which the American Carnation Society was organized to foster.

There are apparently but two points in the cultivation of the carnation to be considered at this time, and the importance of these, briefly stated, will be sufficient food for thought for the grower for at least another year. Our experience with the carnation shows us that in two respects it is a neglected flower, when compared with other objects for the florist's care. To get flowers of any desired class of superior merit there are certain indispensable conditions to be observed. The first is to secure healthy plants, those with constitutions that will enable them to assimilate the greatest amount possible of plant food. Strength is a necessary condition of reproduction, and from Nature's standpoint plants are only reproducers through the agency of their flowers. It, therefore, follows that strength of plant and abundance of flowers are cause and effect.

The first neglect we shall notice in the propagation of the carnation is that selection as a means of increased vitality is sadly overlooked. When any plant has been grown for a long series of years under unnatural conditions, as in the case of carnations from cuttings, instead of from seeds, there will be a natural tendency towards deterioration, which will manifest itself in various ways, the more common being an impoverished vitality. This is attributed to the too commonly expressed opinion that varieties run out. Varieties do run out, but from neglect in a majority of cases. When the same care is used to perpetuate a variety that was given by the systematic hybridizer to produce it there will be no deterioration. When varieties like Silver Spray, Buttercup, Wm. Scott, Edna Craig and numerous other excellent sorts are produced the great object is to perpetuate them. To that end the greatest care in selection should be observed, health being the important consideration. Cuttings should, in all cases, be taken from plants showing the greatest vigor in growth, color and substance of foliage and a tendency to free flowering.

It is the ultimate object of all plant life to produce seed, and the plants showing the greatest tendency to bloom show, as a rule, the greatest amount of vitality, and from such plants should cuttings be taken. Hence has arisen the general opinion that cuttings should be taken only from stems bearing flowers. With due respect to disseminators of new varieties, it is our opinion that the tendency of the trade is to make the most of a variety rather than the best. The effort has not been to select with a view to developing health and strength, but to produce as many plants as possible, while they bring a high price because of their novelty.

The general impression is that the carnation will not stand as much manure as the rose or chrysanthemum. Quoting from Phillip's Flora Historica, published in 1820, Maddock recommends a compost of one-half rotten horse dung one year old, or that has been used in a hotbed, one-third fresh, sound, loamy earth, one-sixth coarse sea or river sand. These ingredients are to be mixed together in autumn and used the following spring or autumn. Mr. Hogg (at the same time) recommends at the rate of three barrows full of loam, one and a half barrows of garden mould, ten barrows of horse dung, one barrow of coarse sand, to be mixed and thrown together in a heap or ridge and turned two or three times in frosty weather. On a dry day toward the end of November take a barrow full of fresh lime which, as soon as it is slacked, strew it over while hot in turning the heap. This destroys the slugs, worms and grubs.

Compare these formulas with the composts used by the majority of growers of this country to-day. As an experiment last September I planted a bench of Lizzie McGowan in soil, one-half well rotted cow and horse manure and one-half decayed sod, the plants being set one foot apart to allow free circulation of air. As soon as the roots had taken hold I began using water enriched with one peck night soil and two ounces of nitrate of soda to fifty gallons of water, applying the same once a week until January first, twice a week thereafter. Disbudding was attended to thoroughly, one bud being left to a stem, all others being removed as soon as they appeared. Results: long, stiff stem, fifteen to twenty inches long, flowers three inches in diameter; returns from commission dealer, November 15 to December 20, three dollars per hundred; Christmas week five dollars per hundred; January first through Lent three dollars per hundred; Easter six dollars per hundred. Hereafter I shall disbud and fertilize all carnations in my houses more heavily than I did the McGowans last year. Another experiment: Plants taken from sand May first, planted June first on bench, in house which has side and ridge ventilation, soil as rich as used for McGowans last season are now, August first, showing much better color and substance in foliage than plants of same sorts rooted April first and planted outside, the latter having to stand the severe drought of the past two months. We have been able to water and care for those inside at little expense.

This experiment has been made to settle for ourselves the question, can carnations be grown inside during summer to an advantage? The full result of this test can not be given until the plants outside have been tested the coming season with those which have been housed all summer. From present appearances I should not hesitate to fill my houses with plants in June for flowering the following season.

In conclusion: Let me ask of you who are growers the careful, liberal treatment of the carnation to which it is justly entitled. The results will be greatly to your advantage, from a financial standpoint, and will bring into prominence a flower that is endeared to every lover of plant life. I thank you for your kind attention.

Westward, Ho!

The combined New York and Boston delegation for the St. Louis convention numbered between fifty and sixty. Vermont, Maine and Connecticut were each present in the person of a solitary representative, a fact which these three gentlemen deplored, but which was a more creditable showing than was made by two or three other states which were not represented at all. The start on the afternoon of Monday, the 7th, was made under most favorable circumstances, a glorious shower of rain having laid the dust and given a beautiful freshness to the country scenery, besides setting the minds of the travelers at ease regarding their stock planted out in the open ground.

The meeting of the New York and Boston parties at Rotterdam Junction was characteristically cordial, but altogether it was the quietest and best behaved crowd that ever set out for a S. A. F. convention. The old war horses stayed at home this time and there was no one to "whoop her up," so all arrived fresh and bright in St. Louis on Wednesday morning in good condition to enjoy themselves.

The Boston folks had been well remembered by the stay-at-homes, as was attested by sundry parcels in their possession, which had evidently been intended by the donors to atone in a measure for their own remissness in staying at home on such an occasion. It was a Boston man also who had with him a letter of introduction to the chief of police of St. Louis recommending him to the kind consideration of that gentleman. The long day on the train was pleasantly passed and amusing incidents were not wanting. Charlie Allen purchased a half bushel of peaches with which to treat the crowd, but half of them proved to be unripe and were hard enough to come in useful as missiles, which flew in all directions during the wait in the train yard at Detroit, the affair culminating in a pitched battle between Joe Manda's party and half a dozen colored porters. When night came, however, some of the wasted peaches would have been welcome, for the dining car missed connection and there was considerable scrambling to get anything to eat. P. O'Mara generously dividing his last crust of bread with his hungry companions was a sight fit for the gods, and not less so was J. A. Dirwanger's run for the fleeing train at a country station where a short stop was made next morning. But he held on to his sandwich. Altogether it was a pretty hungry party when St. Louis hove in sight on Wednesday morning. Warren Ewell's girth had noticeably decreased and Wm. Dihm's slender form was more attenuated than ever. But when the Southern Hotel was reached it did not take long to satisfy craving appetites. The Philadelphia, Washington and Cincinnati people were found already on the field. The only serious accident that had occurred on the trip happened to Worcester Lange's new brown derby, which got shut up for a whole day in an upper berth and came out as flat as if a steam roller had run over it.

CANTON, O.—C. Lindacher has built a rose house 20x125.

NEW ORLEANS, LA.—At the annual meeting of the New Orleans Horticultural Society the following officers were elected: M. Cook, president; J. H. Menard, vice-president; John Eblen, treasurer; Paul Abele, secretary. The financial condition of the society is excellent, and the membership has very largely increased since their late exhibition.

WE request subscribers to make remittance by draft or money order when renewing subscriptions, and to keep a record of the numbers and dates of same. This is to guard against losses in the mails.

WHEN SENDING us newspapers containing items you wish us to note please do not fail to distinctly mark the item so it can be easily found, as we can not spare the time to hunt through the mass of papers sent us for unmarked items.



Bench Grown Chrysanthemums for Exhibition Purposes.

BY ELMER D. SMITH, ADRIAN, MICH.

[*Read before the St. Louis meeting of the Society of American Florists.*]

MR. PRESIDENT, LADIES AND GENTLEMEN:—The growing of chrysanthemums on raised tables and benches has been in vogue but a few years. Yet there has been so much said and written on this subject that I fear it will be impossible for me to offer you any ideas that are new. The despondent cultivator claimed the acme had been reached at the beginning of the present decade; which echoed and re-echoed, until drowned by the din of progress. As long as competition continues to grow keener and each exhibitor exerts greater mental and physical energies, either to depose a renowned competitor or to maintain his own pre-eminence, so long will there be improvement in this very important branch of chrysanthemum culture. I cannot point out a method and assure you it is the best, as my short experience with the bench system (beginning in the fall of 1890) will not justify such precision. Equally good results have been attained on light or heavy soils, enriched with either animal or chemical fertilizers, and where a crown or terminal bud has been chosen. Confronted by such facts, it would be foolish to set forth specific rules and advise them rigidly enforced, and more particularly so when we consider the prime factors are soil, light, air, water and food, modified to a greater or less degree by the quality and quantity applied. Fine chrysanthemums are acquired much the same as intellectual and financial treasures, not by the great exertion of to-day, but by continually adding little by little each day.

Mr. John Thorpe, our honored and beloved chieftain of floriculture and the father of the chrysanthemum in America, struck the key note when he said: "Eternal vigilance is the price of good chrysanthemums." I shall not try to instruct the expert, as I am aware there are many present who are better versed than I, and will be gratified if any of the suggestions offered are of use to the beginners, to whom this essay is addressed, hoping if you are enthusiastic on this subject to incite still greater incentives. I will briefly allude to the methods which appear to be practical, as they have presented themselves in actual experience, and occasionally touch upon those practiced by expert growers, beginning with selections of varieties.

The selection of suitable varieties is the first important matter for consideration by the inexperienced cultivator. There are so many good varieties now in commerce you can scarcely go astray, but, should you feel incompetent, I will mention seventy-five, all of which are good, although not including the new varieties of the present year, as many of those I was unable to see last fall; hence in justice to all disseminators, I will omit them and let you form your own conclusions next November: Ada Spaulding, Alcazar, A. Ladenburg, Beacon, Cullingfordii, C. H. McCormick, Col. W. B. Smith, C. B. Whitnall, Domination, David Rose, Dr. Callandreau, Etoile de Lyon, Ernst Asmus, Eda Prass, Excellent, Emma Hitzeroth, Edward Hatch, Exquisite, Flora Hill, G. F. Moseman, Goguac, G. W. Childs, Golden Gate, Harry E. Widener, Harry May, Harry Balsley, Ivory, International, J. C. Vaughan, John H. Taylor, Joseph H. White, F. Schuyler Matthews, Kioto, Lillian B. Bird, Lord Wolseley, Louis Boehmer, Miss Minnie Wanamaker, Mrs. Libbie Allen, Mr. H. Cannell, Mrs. M. J. Thomas, Mrs. Chas. H. Wheeler, Mrs. Frank Thompson, Mrs. Geo. Rundle, Mrs. A. C. Burpee, Mrs. Irving Clark, Mrs. W. Baker, Mrs. J. G. Whilldin, Mermaid, Mrs. Langtry, Mrs. L. C. Madeira, Mrs. I. Forsterman, Mrs. W. H. Phipps, Jr., Mrs. Maria Simpson, Miss Helyett, Mrs. Jerome Jones, Mr. Hicks Arnold, Mrs. Robert Craig, Mrs. R. C. Ogden, Mrs. J. W. Morrissey, Mrs. W. F. Dreer, O. P. Bassett, Pelican, Princess of Chrysanthemums, Rohallion, Rose Queen, Roslyn, Sec'y Farson, T. C. Price, Tuxedo, V. H. Hallock, Violet Rose, Viviand-Morel, W. H. Lincoln, Waban and Wm. Falconer.

In this country the large premiums are offered for one hundred to two hundred blooms, in twenty-five to fifty varieties; irrespective of type, and, as we all at present favor those of large size, it is safe to say that the greater part of those shown in America belong to the Japanese types. It is to be regretted, however, we cannot arouse more enthusiasm in behalf of the incurved and anemones, as there are none more beautiful when seen at their best. The varieties most suitable for this purpose include many of the Japanese and Japanese incurved and a few of the reflexed anemones and incurved types, and should be such as have abundant foliage and strong flower stem, with bloom of large size and good substance. Very double high built flowers are preferable to those with scanty petals, even though they cover the center.

Assuming your plants are at hand, propagation is next in order. The propagating of chrysanthemums from soft wood cuttings is so simple and well understood that it scarcely requires detail, as to modus operandi. Clean washed sand is considered the best material for the cutting bench, but when available, the following may be substituted, viz.: Coke, brick and stone finely crushed and screened, so as to retain sufficient moisture to keep the cuttings from flagging, will give very satisfactory results. For three years we have used coke dust and fail to see wherein sand has greater advantages, as the cuttings so rooted have been in the best condition. As you are aware, propagation may be commenced as soon as the stools are of sufficient length, which generally occurs by December 15, and may be continued until August 1, but I doubt if the late struck plants produce as fine solid blooms as those propagated earlier. Doubtless there are many here who have had the same experience as I, securing good blooms from W. H. Lincoln, L. Canning, Gloriosum, Viviand-Morel and many others, while Flora Hill, Mrs. M. J. Thomas, Etoile de Lyon and nearly the whole of the Mrs. Chas. H. Wheeler class have been unsatisfactory, from late struck plants. Our English friends, who have given pot culture very careful consideration, advise early propagation, as early as December for some varieties, and January and February for others. This may seem impracticable in this country, where the day atmosphere throughout the summer keeps the wood in a semi-ripened condition, thus insuring bud development early in autumn. Yet I fear we err when we ignore their teaching and plunge headlong into late propagation without even considering the constitutional peculiarities they inherit. It is true the vigorous varieties will do well, but if weak in growth they will certainly require more time in which to store sufficient strength to put forth their best efforts. There are some which can hardly be classed as constitutionally weak that will need the same attention; of such, Ada Spaulding, Harry E. Widener, Etoile de Lyon and Mermaid are examples. Had the subject been cut flowers for commercial purposes, where the cost of production must be considered, then I would have recommended May and June as the best time for propagating the bulk of the stock; but where the object is wholly fine blooms for exhibition I think eight weeks earlier will be none too soon, and the result thus obtained will fully compensate for the extra labor.

From the first to the fifteenth of June will be a good time to plant if the house can be put in readiness without too great a sacrifice, but each grower should consider his own interest in this matter, for if the plants have been shifted along and are not drawing too much two weeks later will answer as well. When planting on old benches it is well after removing the soil to give a good coating of lime wash or a light sprinkling of air slacked lime before refilling; this will not only sweeten the benches, but will be beneficial to the plant later on. No one will doubt the efficiency of new composted soil which has been prepared about the same as for roses, of old sod piled with about one-fourth its bulk of well rotted cow manure, and it may be either of a clay or sandy texture. When heavy soil is used it should be opened with sharp sand or coke dust, for if too retentive it may give you some anxiety in dark lowery weather, for owing to its excessive moisture the application of liquid enrichment must be deferred some days, even though they need encouraging. Various depths of soil are used, from three to eight inches, but where close attention is given to feeding I prefer not to exceed four inches, as the desired conditions can be maintained easier than where greater depth is used. It is true shallow benches necessitate constant attention through July and August, yet the advantages are so pronounced during the continued rainy weather of autumn that one feels well paid for the extra labor. Some growers spread an inch of manure, either rotted or fresh, on the bottom before filling the benches with compost, and no doubt procure fine blooms, but would not the plants receive greater benefit if the same material was applied as top dressing or in liquid form after they have made sufficient growth to take up the food incorporated in the compost? I would say yes. Although unable to give you proof obtained by actual experiments, newly composted soil with only sufficient manure to start the plant off briskly, followed either with top dressing or liquid application (as you choose) to keep them in good vigor will be a safe and economical method to pursue.

At what distance apart to plant may be somewhat perplexing, and should be decided upon by each grower by considering how many blooms he would like the plants to produce. You must bear in mind we are to encourage the accumulation of abundant reserves to be expended in the blooms, therefore the less they are

divided the better the result. The Japanese rule, one bloom, is the best, although a plant will produce three or four very fine blooms. If you decide upon three or more, ten to twelve inches each way will be sufficient, and six to eight inches for single blooms. There is considerable difference in the height of chrysanthemums at maturity, but if you give this a little consideration before planting you will produce better effect in the house, as well avoid over-shadowing dwarf varieties by tall ones. A close observer will notice day by day the varied progress of his plants, which will assist him in their arrangement, although records taken every year will not only further facilitate, but insure greater accuracy. Plant the dwarf ones on the front row of each bench or together in one end of the house; at all events do not place them between tall varieties, for where this occurs both plant and labor are lost. Very often only a few of each variety are planted, as in the case where novelties and other scarce sorts are being tested; then houses running east and west are preferable, with the plants set in rows across the benches, which will allow the sunlight to reach them all some time during the day, even though they are not uniform in height.

Before proceeding further, look to the shading and see that it is not too dense or entirely removed by heavy rains. We continue to use whitewash and apply with the brush, leaving about an inch and a half on each side of the bars unpainted; this admits light to all parts of the house, as the lights and shadows are continually shifting. Set the plants rather firm, give a liberal watering, and the planting is complete. As the heat is increasing at this season you will find light syringing once or twice a day will be very beneficial, but avoid for the first three or four weeks heavy watering, as the soil is apt to become sodden, particularly if of a heavy texture, which is soon followed by yellow or sickly foliage. Good judgment in watering is essential, so therefore avoid the wet places and see that the dry ones are made wet. In a month from the date of the planting they should be making strong growth and water may then be given more copiously, until the buds are ready to burst, and then again be careful, and as far as possible do this work early in the day, to insure a dry atmosphere at night, as the dew falling on the expanding petals is apt to cause decay. A few days after planting see that the soil is well stirred to remove all weeds which may be starting and this should be repeated occasionally until the roots appear at the surface, when it may be discontinued for fear of injuring them.

In a few weeks staking and tying will claim your attention for a day or so, and this may be done in many ways. Some use wire or cord in the place of stakes, fastening them to strips at the roof and hanging down to the plants, while others stretch several wires over each row, much the same as for grape trellises. We have adopted the system generally used in rose houses, which is as simple and practical as any. Take No. 18 galvanized wire, strain and securely fasten over each row, about three feet from the bench, and to this the top of each stake is tied, after being placed in proper position. The stakes, as a rule, will have to extend far above the wire, according to the height of the plants, and if left too long the ends may be cut off just below the buds, and here securely tie after the disbudding has been done, thus insuring straight stems. You will likely experience some trouble in tying the back row, especially where the benches are four feet wide. In such places we use No. 20 copper wire, cut three inches long and bent in about the same form as a capital C. Taking it between the thumb and finger with the open side out, place around the plant and stake, then press together until the ends pass, which securely incloses both in the ring thus formed.

Fresh air is quite as essential in the vegetable as the animal kingdom if perfect health is desired, and is very important to the plants we are treating. Give air at all times and abundantly when the plants are making rapid growth, continuing this until the buds begin to burst. The foregoing should be practically modified when sudden and severe changes in the temperature have occurred and where retarding is necessary. Judgment must be used from the time color appears to maturity and be governed by the nature of the weather and the date to be shown as compared with the present rate of progress. As the flowers begin to unfold continue the ventilation at night, as the circulation of air prevents dew and will give a better color to the blooms than where heat is resorted to to dispose of the surplus moisture. Avoid the use of heat as far as practicable, but when the thermometer drops below 38° a little heat will be needed and at the same time slight ventilation will be beneficial.

After the plants have attained two feet in height it is well to remove a few of the lower leaves and when four feet has been reached there will be no harm if the lower fourth has been disleaved, for those remaining will be sufficient to enact their natural functions. This will admit air more freely and give a chance to note the condition of the soil.

Insects of all kinds must be looked after; of such the aphis is most common and may be kept in check by applying tobacco dust after syringing. As soon as the buds are well formed two or three smokings should be given to destroy all insects at this date, as the use of both of those remedies must be avoided or very judiciously applied after the color begins to appear. Grasshoppers are sometimes very troublesome and the best remedy for them is hand picking; this should be done as early in the morning as is convenient, as they are then more docile and easily caught, but if snails are troublesome take a lamp or lantern and search for them before retiring at night.

Probably one of the most important topics to be considered is feeding to enhance floral embellishment, which is the flower of our subject that has been produced, and we wish to reproduce annually with accuracy and economy. Now let us consider the efficiency, accuracy and cost of such food as we generally use.

It is a known fact fresh cow manure is very stimulating to growth, but its effects present a marked coarseness in stem, leaf and flower and lack of refinement and substance. These qualities can be acquired without detracting from the size, color or contour by the use of chemicals; such at least has been my experience. Next in order is accuracy and a certain amount is essential if we admit food or stimulants are to be used at all, for our aim is the acme and the nearer we approach that point the more acute must be the accuracy. Let us endeavor to ascertain the relative value from this standpoint of those naturally and chemically compounded. When the liquid from the animal manure is to be used I believe the color of weak tea is generally advised, but how easily we are deceived when apparently on the right track. Take a half bushel of manure from the horse stable and add sufficient water to cover and in twenty-four hours note the color, or if you choose, fill and tightly cork a bottle and then compare this with that which has stood open for a week or two. The ammoniacal constituents have evaporated, leaving the liquid darker and apparently stronger, though containing less alimentation. The same may be said of cow manure, but not to such a marked degree. Commercial and chemical manures, when confined, are protected from air and water, so remain unchanged, thus assuming the same strength at each application if properly prepared. Thus I will leave this matter for your decision.

Now turn to the cost of material, and as near as I can average the price $1.50 per load of the cubic yard is not far out of the way, and I think it is safe to say one-half bushel will be required per barrel when we average up the quality generally used. So with twenty-one bushels per yard you can have forty-two barrels, at a cost of about 3 1-6 cents per barrel. Eight ounces of nitrate of soda is sufficient for one barrel and will cost you about .1¼ cents, and five ounces of sulphate of ammonia for about .006 cents and is enough for the same, while four ounces of nitrate of potash will require .02 cents, giving an average cost of .01⅓ cents per barrel.

Animal manure must be put to soak one way or another, and if you are progressive and use a tank and hose for distributing you will have to filter the liquid before applying, while the chemicals are soluble and require no further preparation. It is safe to say the relative cost is five to one in favor of the latter, when all things are considered. Knowing nothing of chemistry and having had little experience with its products, I cannot give you a formula and assert its superiority, as one of such value could only be compounded after years of experimenting with all the elements beneficial to plant growth and floral embellishment. Volumes could be written on this subject, as may be seen when we consider ammonia, potash, soda, etc., are productive of the desired results, and again those results are modified for better or worse by the various forms in which those elements are compounded, such as muriates, nitrates, phosphates and sulphates. Mix one part of sulphate of ammonia with two parts of powdered nitrate of potash (commonly called saltpetre), and by using four ounces of this mixture to a barrel of water you will find it excellent after the plants have absorbed the manureal virtues of the compost.

Nitrate of potash and the nitrate of soda of commerce are largely composed of nitrogenous matter, and I prefer the former, as it is nearly or quite chemically pure, while the latter is put at our disposal as found in the natural deposits and is apt to contain elements more or less poisonous to plants when used in adequate quantities. I have noticed when nitrate of soda was used wholly the tissues of the foliage and flowers are flabby, much the same as with cow manure, and lack substance, so essential where blooms are to be staged several days. It will be advisable where soda is more available to use sulphate of ammonia occasionally, or mixed in the same proportions as where potash is used; this will harden the tissues and thus materially add to the keeping qualities.

I previously alluded to the excessive use of manures in the early stages of plant life, and in the same connection I wish to

caution you in the use of liquid foods. Over-feeding at any stage is wasteful as well as injurious, just as much as deprivation is debilitating. Would it not be better to supply in such quantities as can be absorbed without injury, rather than to pamper at any stage of growth? How much food each and every variety will use advantageously can be ascertained only by records taken each year of both quantities applied and the quality of the results. It is certain some will be profited, while others will succumb with the same treatment, and the constitution, as it appears from the root, stem and foliage standpoint, can not be relied upon with any degree of certainty, for example: Mrs. E. W. Clark, which is rather weak



ILLUSTRATION 1.

in root and stem growth, will flourish with more food than Alberic Lunden, which is much stronger. The symptoms of excessive food are varied, according to variety and the date when mistreated, and such are examples, triangular and twisted stem or trunk and contorted petals, which often have the appearance of being burned or frozen. The chemicals referred to may be used in our modern conservatories without being offensive or objectionable in any way, as they are odorless, colorless and tasteless as applied. This fact shows how easy it is to under-rate their strength and over-reach in these matters, so for fear some one of you may be too zealous I will say: Water is the only antidote I know of and should be applied copiously at the first indication, and in aggravated cases hot water will be more effective. When liquid foods of any kind are used great care should be exercised, for if the soil is dry the roots are too active in absorption and thus take too large a dose of the tonic, which acts like strychnine on the human system.

The diversion of the natural inclination of the chrysanthemums to hasten or retard floral development may be of some value to you when the flowers are wanted at a certain date. Early struck cuttings will set buds early if abundance of air is given and at the same time only sufficient water to prevent flagging, as such treatment hastens wood ripening, thus causing bud formation, and the application of heat as well as hot water at the roots will still further hasten the buds into flowers. In retarding we must do exactly opposite to that which has been done in hastening, thus, strike late, keep wet and close with some shade; this will do the work, but all these details should be carried no further than appear to be practical. In connection with this subject I wish to say, chrysanthemums in New Zealand perfect their blooms in March and April. This fact confirms the theory of hastening and retarding and at the same time teaches us it is not simply because it is November that we have chrysanthemums, but it is the atmospheric conditions that take place in the fall; hence we can have chrysanthemums at any date, providing we can produce the required conditions.

The time is fast approaching when we shall have to consider the important matter of selecting buds. I have taken from the work of Edwin Molyneux the engravings representing these two forms of buds and had them enlarged as they appear before you now in illustrations 1 and 2. No. 1 represents the crown, which as you are aware is formed first, and if selected we must rub out all the lateral growths that are starting from the leaf axils, as shown by the dotted lines. The greater part of the flowers produced are from terminals, as the late struck plants seldom produce crowns, but for fear you may select them without knowing of their peculiarities I beg a few moments for their consideration. In England those buds are taken or selected, as they term it, earlier as a rule than in this country, owing probably to the difference in climate. According to Messrs. W. & G. Drover & Nephew (W. Adam's work), of Fareham, England, those of the Pelican are selected as early as July 26, while those of Etoile de Lyon are not taken until August 28 to September 6. I think on this side there are very few selected before September 1, and the greater part of them from the tenth to the fifteenth. I read you the first entry in our diary for last year. Mrs. M. W. Redfield, crown, taken September 10, fully expanded October 19, size five and a half by five and a half inches, height of plant two and a half feet, and then I find those of Emma Hitzeroth, Mrs. Robt. Craig and Harry Balsley were taken ten days later and were matured November 1. This shows us there was no material difference in the time consumed, as the first named developed sooner, owing to the earlier setting of its bud. It may be well to state that those referred to were hastened into bud somewhat and encouraged at the last with heat; but it shows, however, that our buds mature quicker than on the other side, as it would be impossible for them to show flowers from buds taken at our late date. With the exception of a few varieties their experts prefer the crown, and this is quite likely owing to the fact they do not care for foliage effect, as they show on boards, which necessitates cutting the stem short. With us a flower without its foliage is like a diamond without its setting, for a greater part of our flower buyers exact long stems with abundance of good foliage. This I think should be our standard of excellence for cut blooms where a premium is offered without specifying the type; then their merits would be according to their commercial value, as this governs all products.

Some varieties produce better blooms from crowns than terminals, but also (with a few exceptions) have much longer and stouter flower stems, as is the case with Dr. H. D. Hull, as shown in Illus. 3. You will notice a deficiency of foliage near the flower, which is overcome in Illus. 4, where the terminal was taken, and this is nearer our standard of excellence. Therefore we would conclude terminals are preferable where there is no great difference in size and form and except in those varieties having a tendency toward weakness of stem. Terminals require less time in development and will be ready for exhibition nearly as soon as the crown, taken three or four weeks earlier. Where crowns are selected there is a tendency toward increasing the number of petals and should not be indulged in only where there is deficiency. I feel this matter of selection is of more than ordinary importance and ask your indulgence in diverting from our subject.

The American Chrysanthemum Society was organized for the purpose of improving the golden flower, hence raisers of seedlings should avoid taking crown, for when disseminated and terminals are selected, for the sake of foliage effect and to meet the requirements of America's ideal flower, there is sure to follow disappointment to both introducer and buyer. On the other hand they should put greater energies in pollenization to secure such as will give the desired qualities from the terminal, for by so doing they are tending in the right direction. In that way and no other can America lead the world with her chrysanthemums. To avoid



ILLUSTRATION 2.

being termed a theorist you will pardon me if I refer to my own productions by saying the blooms of Niveus shown last fall were from terminals, one of which is represented in illustration 5. If you wish to take the terminal rub out the crown, leave one or more of the strongest laterals to grow on. These will advance into the final growth, until intercepted by nature, who to enact her laws of reproduction completes the structure with a bud at the end of the stem, as well as from the leaf axils as represented in Illus. 2. By removing the weaker bud we will greatly increase the size of the flowers of those remaining; this is termed disbudding and is generally done as soon as



ILLUSTRATION 3.



ILLUSTRATION 4.



ILLUSTRATION 5.

large enough to determine the most perfect one and also avoid its injury in removing the others. The dotted lines in the engraving denote those to be removed and also the terminal, which if perfect is considered the best and should remain, but if injured in any way remove and take the next best. In disbudding begin at the top and work down, for if you reverse this and should happen to break the stem when nearing the perfect bud you will have none in reserve. As far as practical, this work should be done in the morning and on cool and cloudy days, for then they are filled with sap and are more brittle, which makes it easier and safer. As the bud swells we are fast approaching floral embellishment. It has burst and the petals continue to lengthen until we behold its beautiful color, large size and perfect form. This, supported by a stout stem, abundantly clothed with lustrous green foliage, is the perfect exhibition bloom of America. Thus we reach the acme.

Labor Saving Devices.

BY P. O'MARA, NEW YORK.

[*Abstract of essay read before the St. Louis meeting of the Society of American Florists.*]

The question of labor is perhaps the most important the florist has to consider, for the reason that it is the chief expense in preparing his goods for sale. It is doubtful if in any branch of trade labor enters so largely into the cost of production as in floriculture, and it is very likely that it will ever remain so, from the fact that the operations incident to plant growth must be carried on by hand; there is little if any room for the inventive genius, and the improvements of the future, like those of the past, must be on the lines of simplifying and shortening them. If it is expected that the paper which I have prepared will contain startling new and improved methods, descriptions of new machines or devices for accomplishing work which has heretofore been done by slow manual processes, I fear that disappointment will result. The principal value of such a paper as this is to bring out such, if they exist, and with that end in view I corresponded with the foremost men in the trade, men who are recognized as being ever on the alert for improved methods and machines; but the result was almost nothing, for the simple reason, I believe, that there was nothing to offer.

The greatest strides in labor-saving to be noticed in floriculture have been made in greenhouse building, and the substitution of enduring iron and slate in the construction of benches and superstructures for rapidly decaying lumber. In answer to a letter which I sent to Mr. F. R. Pierson asking him to give me information regarding any new devices he might have in use which were labor-saving, he referred me to his excellent paper on Greenhouse Construction, read before this Society at the annual convention in Toronto, in 1891, as embodying nearly everything in that line which he has in use up to date. In these days when we have two weekly papers devoted to the interests of the trade, conducted by enterprising men, and the spirit of enlightenment is abroad so that knowledge of labor-saving devices is rapidly and thoroughly disseminated through our ranks, there is little left for an essayist on this subject to say that has not been said before. There is no doubt that the greatest labor-saver is a system of work adapted to the needs of the establishment, and a man competent to keep it in working order and with brains and energy enough to change it as the conditions may demand. There are, however, some general principles, which might be followed with advantage, and although not new yet may not be generally known, or if known, practiced as fully as they might be.

It was an axiom with the late Mr. Peter Henderson, under whom I had the honor of learning what I know about floriculture, that "For rapidity of work divide labor." The practical application of this theory consisted mainly in dividing the ordinary operations into as many hands as could be used to the greatest advantage. For instance, in potting, he would have a man do nothing but pot, while a boy would take away the plants and "set" them; another would keep him supplied with pots and cuttings and shade and water the potted plants. In this way, he succeeded in raising the maximum of a day's work in potting such plants as verbenas from 5,000 to 11,500, which one of his men accomplished in ten hours; the same man repeatedly potted 10,000 in a day of ten hours, and I can say from actual experience that the work was as well done as when only half the number was potted. That this extraordinary proficiency was not confined to one man was shown in the potting contest in Madison Square Garden, when one of the men from our establishment—that of Peter Henderson & Co.—potted over 1,300 in a single hour, and two others potted over 1,200 and 1,100 each in the same space of time. This same principle of dividing labor he practiced in market gardening, and with a like result. He invariably had boys to drop the plants for men planting cabbage and celery, and frequently demonstrated that a man with a boy to drop the plants would accomplish more than two men

planting singly and each carrying his own plants. This theory of the division of labor he carried into all operations. In packing, he always supplied each wrapper with a boy to turn the plants out of the pots and carry them away. By keeping a man employed at one thing, he performs the same motions so often that he must of a necessity acquire speed, just as type setters, type writers, telegraph operators or postal clerks in our large post-offices do. Another advantage derived from this system is that it keeps the hands together, making it easier for the man in charge to watch them, it makes of each man in charge of a certain job a temporary foreman over those immediately under him, and it generates a spirit of emulation among the men and boys to keep up their end, all of which combined makes a very good labor-saving device for the man who pays the salaries.

Another thing which I consider of the utmost importance in any effort to obtain a saving of labor is, that the employer should foster a spirit of individual enterprise among his employes, each should be made to feel, if possible, that he is not expected to be a mere machine to perform in a perfunctory manner the duties allotted to him; he should be made to feel a personal responsibility, and thus secure the benefit of whatever portion of brains with which nature has endowed him, as well as his physical labor; he should be made to feel that his value depends in a great measure on the suggestions he may make for his employer's benefit. It requires some tact and a knowledge of human nature to secure this, both of which it is assumed the employer possesses, or he would never rise above his fellow workmen, for the vast majority of employing florists, it is known, have risen from the ranks of the florists and gardeners who at one time earned their daily wages. Such men then, above all others, should know that a man of ordinary intelligence constantly engaged in working practice will in all likelihood suggest and carry out improvements, if properly urged. Strict discipline should be maintained at all times and a uniform degree of quiet command enforced; the irritable, blustering employer cannot hope to obtain either in quantity or quality the same results as the one who is at once master of himself and the men under him.

These are some general principles which may properly be included under the head of "labor-saving devices," and I offer them for the earnest consideration of my listeners.

There are a few labor-saving devices in practical operation in our place which may not be generally known, and which might be copied to advantage. One of these is our method of handling two and three inch pots. Under the old method, these as they were emptied in the packing shed or in the greenhouses when shifting into larger pots, were placed in "flats," to be piled away under a bench in a house designated for that purpose; now and for some time past our method is to have empty boxes of a certain size ready and place the pots in them as fast as emptied, thus saving double handling. For two inch pots we generally use a box of 18x12x6½, which holds 250 pots. These boxes we obtain from the local grocers when they sell their canned goods and have the empty boxes on hand. For three inch pots, we use a box 18x13x10, which holds 150 pots. These boxes cost delivered on our place four or five dollars per hundred. The pots when placed in them are just below the edges, so that they can be piled one above another and can be carted from point to point on our place as needed. This method of handling pots is a considerable saving in labor in the course of a year, and lessens breakage proportionately to the number of times they are handled. The larger sizes of pots we store away in bins prepared for the purpose, and always use a horse and cart to move them to the points where they are to be used; in fact, we use a horse and cart or wagon to move pots and plants wherever it is possible, and save considerable manual labor in this way—the extent of our place naturally suggests this method, on a small place it would hardly be practicable.

For the "flats" in general use in a florist's establishment we use shallow boxes which measure 20x14x1¾ deep; these we obtain from the Standard Oil Co. at $2 per hundred. These boxes they obtain by importing the tin plate, and as they are nearly waste to them, they sell them at a low rate. Another size, 21x10¾3¼ deep, we obtain from them and find them very useful for forcing tulips, narcissus, Roman hyacinths, etc., also for starting palm seeds. These boxes are much cheaper than if made by hand from sawed lumber or by dividing larger boxes into sections. Our system for the distribution and collection of tools, we find to give great satisfaction. We keep them under lock and key and depute a man to take care of them. He is not fully occupied at this and so finds other employment around the place. When a man wants a tool, he taps the bell which we use to summon and dismiss the men, and the man in charge of the tool house hastens to it and gives the man the tool he wants; when the tool is returned the bell is tapped again and the man comes and puts it where it belongs. By this system we have no trouble in keeping track of the implements and the least possible time is consumed in distributing and collecting them.

In sifting potting soil for small pots, we use an upright screen with a one-inch mesh, such as is used in coal yards, and find that it does the work as well and far more rapidly than a small circular sieve can do it. This season we had on trial a swinging sieve fitted up with iron teeth to break sods, but found it next to useless, although it is advertised with a guarantee to do the work of twenty men; it is fair to say, however, that the manufacturer supposed that florists still used the circular hand sieve, otherwise he said he would never give such a guarantee.

This season, on account of the very dry weather, we were compelled to water our outside grounds, almost constantly, and we used a device which worked satisfactorily and saved considerable labor. We use city water, metered to us, and have piped our grounds, thoroughly with hydrants at convenient distances throughout. Instead of having a man to hold the hose and distribute the water we used the device alluded to. This consisted of a Y piece inserted at the end of every twenty-five foot length of hose, one arm of which served as a connection between the lengths, and on the other arm we fastened a "Water Witch" lawn sprinkler. We use one-inch hose and have force of water sufficient to operate five of these sprinklers on one stretch of hose, so that we could water a surface of 125 feet by 12 without any labor but the stretching of the hose and turning on the water. About two hours we found sufficient to water one place, and then the hose would be moved. The location of hydrants is a very important one from a labor-saving point of view. In our 100-foot houses, when first erected, we placed a hydrant at one end, but some years ago we changed the system and now have the hydrants in the center of the houses, one on each side of the middle bench. In our 300-foot houses we have the hydrants at intervals of 50 feet, and as just stated, our grounds are thoroughly piped and well supplied with hydrants. The amount of labor saved in one year by this method, I am satisfied, more than paid the entire expense of the alteration; besides the great saving in hose must be taken into account, which in itself is a considerable item.

It is of the utmost importance to keep a greenhouse watertight, not only to prevent rotting of the structure, but for the general health of the plants grown in it. We have found by experience that the lapse of time rots the putty in which the glass is imbedded, no matter how well it may be done, that water gets in, loosens the glass and rots the bars. Many devices have been tried to overcome this, but the best we have yet seen is one which was suggested to Mr. Charles Henderson at the Convention of the S. A. F. in Cincinnati by the late H. W. Williams, of Batavia, Ill. This consists of white lead and oil in about the consistency of cream spread in a thin line along the edge of the glass where it joins the bar; over this we shake dry white sand, the result is a cement which lasts for years and effectually checks all leakage. The best implement to distribute this is a machinist's oil can with the extreme tip cut off so as to widen the aperture and allow a free escape of the mixture. As an evidence of how rapidly this work can be done, I would state that two men finished the long slope of a 300-foot house in half a day. This method is described by Peter Henderson in his book "Gardening for Profit," and was made the subject of a magazine article, but I deem it of sufficient importance to introduce it here. Mr. Henderson stated that had he known of this method thirty years earlier, it would have saved him thousands of dollars for repairs, besides having the plants in better condition.

Before bringing this paper to a close, however, it may be well to devote a minute or two to a general review of the improvements effected during the last twenty years. The general application of the screw and cog wheel to ventilating, with its many improvements, replacing the rope and pulley and hand-lifting sash, and now we have an automatic ventilating apparatus which gives fair promise of becoming a practical reality. The great improvements made in heating apparatus, both hot water and steam; the improved glazing tacks and methods of driving them; the advance made in fungicides and insecticides and the improved methods of distributing and applying them; the diffusion of knowledge concerning the insects and fungi which are the most subtle and dangerous foes the florist has to contend with; the grand advance in greenhouse construction which I have already alluded to; the general substitution of horse and hand cultivators for the hand hoe; the use of steam pumps for distributing manure and plain water in many of our larger establishments; the use of printed labels both wooden and paper; the light and neat mailing boxes; the improved methods of of packing plants; the general adoption of wire, cane and manufactured stakes in lieu of split shingle and branches of trees; the great general advance in plant knowledge and methods of culture—in all of which this Society has acted a prominent

part by bringing men together for a fair exchange of ideas, by establishing a press devoted to the general interest and by exciting a healthy competition. It is a matter of congratulation that the vast majority, nay, almost the whole of these improvements, owe their existence to men who were actually engaged in the active work of floriculture. We owe much to the entomologists and mycologists, those patient investigators who delve deep into nature's mysteries and lay the results of these investigations before us; we owe much to the men who have carefully and patiently studied how to improve methods of culture, who have spent time and money in their investigations and have scattered broadcast the knowledge laboriously obtained for the benefit of their struggling brethren. We owe much to the horticultural press for their enterprise and energy in obtaining and disseminating this knowledge; and we owe much to the faithful officers of this Society past and present, for the work they have performed in their official capacity.



The Science and Facts of Successful Rose Growing.

BY ROBERT F. TESSON, ST. LOUIS.

[*Read before the St. Louis meeting of the Society of American Florists.*]

In accepting the request made by your executive committee to read a paper before you to day upon the above heading I did so with a feeling that there would be many members among you who are much more conversant with and better able to handle the subject than I. Still I also recognize the fact that when called upon to prepare something of this kind it becomes a duty that we should acknowledge and perform.

In treating the subject I will be forced to confine myself to the growing of the so-called tea roses, to the exclusion of the hybrid perpetuals, as I have had no experience with the latter class, and will give the results of observation as well as experience wherever they have commended themselves strongly enough to deserve a trial.

Science, in a general sense, may be said to consist of knowledge, or the understanding of facts by the mind. Science, therefore, applied to successful rose growing would consist of known facts, which from experience have been found to be essentially important in accomplishing the end the rose grower is striving to attain. This end, as I understand it, is the production of roses, good roses, and of the maximum quantity and quality, during the winter season. The statement of facts that are known to tend towards the accomplishment of the above results, or the science of it, brings me to the practical details connected with the subject.

To produce good results in any line of business or manufacture we must have good tools and materials to work with, and the same is emphatically true of rose growing. The houses should admit as much light as possible and be provided with ample openings for ventilation, even though they be used only during the warm summer months. The heating should be so arranged that the temperature can be kept at 58° or 60° during the severe weather, I mean at night; it being useless to try and succeed where the glass goes down to from 45° to 50°.

To grow roses we must have plants and even before this cuttings, it being to every grower's interest to see that they start with clean healthy stock. Such when placed in the sand will root quickly and start off well when potted. There has been considerable written about cuttings, whether they should have one, two or three eyes, or whether better made with a heel. I am of the opinion, however, that provided the wood is in the same condition and receives the proper attention and care there will be little difference in the result obtained for the plants during the season. It is of much more importance to have the wood in the best condition rather than have a large number of eyes present. The cuttings should be made late in the winter and early spring months, according to the time wanted for planting, and placed in about three inches of sand having a bottom heat of 65° to 70°, with a cooler top, where they will root in from three to four weeks. As soon as the roots are from ½ inch to 1 inch in length they should be potted in 2½-inch pots; be careful to keep the air in the propagating house fresh and sweet by ventilating whenever possible, but avoid all drafts, as they are detrimental to the cuttings, especially so to Beauties.

The best soil to use for the first potting is well rotted sods, which if inclined to be heavy will be improved by the addition of some sand; manure of any kind in the soil at this stage is of no benefit; as soon as potted stage in a sunny house and see that the first watering is properly done, have all the soil moistened but avoid having it mud; shade for a few days until the roots take hold of the soil, after which gradually expose to the full sunlight. They can be kept warmer than the general run of stock, 80° not being too high on sunny days; give plenty of air but avoid drafts, syringe on all favorable mornings, and early every afternoon go over and attend to whatever requires water.

As soon as rooted through and roots commence to work around the sides of the pots enough to hold the soil together they should be shifted into 3-inch or 3½-inch pots, it being a mistake to wait until the plants are potbound before shifting, as they thereby receive a check. From these they should go into 4-inch and 5-inch if necessary; shift into the larger pots and use plenty of drainage rather than have them become potbound in the smaller size. Soil for everything but the first potting can be the same and should have about 1-6 part well rotted manure worked in as well as a good sprinkling of bone meal. Care should be taken at all times to see that the plants are not dry; some soils are quickly covered with a green scum which should be removed as often as necessary, it being impossible to tell the condition of the soil beneath it without knocking the plant out of the pot, and this is to be avoided as much as possible. I find the best time to look over pot plants to be early in the afternoon, as it is easier to tell then what requires water.

Planting should be done as early as possible, June being the generally accepted month. It is reasonable and should be understood that if we wish to cut a quantity of buds during the winter season we must have strong plants to do it from, and the only way to get strong plants is to give them a season's growth. Those desiring to hold their roses in during June can accomplish nearly the same result by carrying their stock for replanting in 5-inch pots, thus having them well advanced when planted. The use of strong healthy stock and early planting is without doubt the most essential factor connected with successful rose growing, and if properly attended to renders the remaining work easy of accomplishment, while the use of poor stock gives the grower uphill work all the season and in the end is often unsatisfactory.

Before placing the soil in the benches see that they are well cleaned out and give a coat of crude oil or some other preservative. Any good soil will do, sod being preferable where it can be obtained. I have seen soil plowed to a depth of 6 inches and all of it used with excellent results. About 1-6 part of well rotted manure and a good sprinkling of bone meal should be well mixed with the soil before using, by turning the pile several times; a regular formula for mixing or composting can not be given owing to the wide diversity in the character of soils, but if inclined to be heavy an admixture of sand will be beneficial.

If the plants are strong place about 4½ inches of soil in the benches as it will settle to 3½ inches after having been there some time; should they be weak 3 inches or 3½ inches would be better; level the bed up as soon as planted and water so that all the soil is moistened; if the beds are inclined the higher portions will show a tendency to become dry as the top soil settles and becomes firm, this will necessitate stirring the surface. We use for this purpose a small hoe and attempt to go over the beds at least once every ten days, thus keeping all weeds down and enabling one at a glance to see the condition of the soil. The plants are syringed every morning during favorable weather, and what requires water is attended to early in the afternoon, the same as the pot plants. Stake as soon as possible; there are many ways of staking, but I prefer a single upright support to a plant, either a stake or a wire as may be most convenient; after being tied a light mulching is beneficial, as it prevents the soil from drying out too quickly and encourages root action towards the surface; as the mulch wears away a heavier coat can be applied, which should be continued during the season. As the plants gain strength and need food a liberal sprinkling of bone flour in the mulch will be beneficial.

Considerable has been written in regard to the advisability of carrying roses in shallow beds or on benches more than one season, and I think in the near future there will be much more written regarding it if the system is not more generally adopted; certainly if roses can be carried two and even three years in the same bed successfully there is considerable time and labor lost when thrown out yearly, as well as the saving in growing stock for replanting. Now, if as we all know there are places where this system is being and has been pursued successfully for years, we must lay the fault of various failures, not on the system, but on the persons carrying it out. There must have been a flaw somewhere, some detail that was omitted, or something that was not done properly. The method adopted is to gradually dry the plants off until they have had a good rest, without, however, allowing the bark to shrivel. You would be surprised at the amount of drying a rose plant can stand when done properly and still remain sound. After having

been rested, say two weeks, from the time water was commenced to be withheld all the small weak wood should be cut out and nothing left but the strong canes; these should be shortened back to about a foot or 18 inches. The plants are then watered and started into growth, a mulching of about an inch of composted soil is then spread upon the bed and they are treated the same as the young replanted stock; great care must be taken, however, in watering; owing to the lack of foliage very little water will be required. Syringing should be given every day, and in very warm weather a damping down in the afternoon is beneficial. As the new growth pushes out and the foliage increases they will require more water and should be watched closely, too much water will turn the foliage yellow and probably burn the edges of the leaves. Where solid beds are used the best results have been obtained where the amount of soil was very little more than that used in benches, say 6 or 8 inches. An old idea has recently been revived and tested in this connection with excellent results. It consists of the application of bottom heat to the soil in which the roses are growing by means of pipes passing beneath it; this allows the free syringing and watering during the short days of winter, the inability of doing which has led, in a great measure, to the abandonment of the old solid border.

It has been found advisable not to rest some varieties, such for instance as Perle or Gontier; they are better kept growing and in August having all the small wood removed, after which the heavy canes, instead of being cut back, are bent down, thus insuring numerous breaks. The objection to having them cut back close is their inclination to throw heavy stems terminating in clusters of buds, many of which are useless.

The manner of treating a variety with regard to drying off or keeping growing will have to be decided by the person in charge, forming their opinion from the style and habit of growth it presents. To make the resting of roses a success it must be done thoroughly and early in the season, so as to give them time to make their growth, the same as the young stock, before the short days of the fall season appear. I think Brides and Mermets, in fact most all varieties, can be carried the second season in the same manner as Perles, simply by cutting out small wood in the summer; much care will have to be taken, however, with the watering. This plan I have never seen applied to benches, but will attempt it next season.

Manure water can be applied in the fall, provided the plants are as strong and vigorous as they should be, and can be used with advantage about every ten days or so during the winter season; should the plants not appear to be able to receive it to advantage it would be better to rely upon the mulching and what is in the soil to carry them through the winter months, commencing its use in January or February as the days begin to lengthen. At this time, too, plants that have been receiving it since fall can take it a little oftener, say about once a week, and will also be benefitted by working into the mulching some dried blood, ground tankage, or so forth. In applying liquid manure the beds should be in a condition to require watering, and it should be given thoroughly, so that it shows through the bench. A change in the ingredients is also beneficial, and soot, guano or other fertilizers may be used in turn. Where any large amount is required it is a great advantage to have some place where it can be mixed in quantities and distributed wherever needed. The best thing to use for this purpose is an ordinary cistern, as it can be used at all times, being out of reach of the frost, and if large enough to hold a supply for two weeks a good day almost always occurs for replacing what has been used. Upon most large places some provision of this kind is made, but it could be done more generally to the advantage of all.

As fall approaches firing must commence, it being very poor policy to put this matter off too long; as soon as the temperature drops to 58° in the houses heat should be applied, even if the ventilators have to remain slightly open. I prefer a night temperature of 60° for most all varieties, and at times run it higher for a few days without any bad effects. The difference between roses grown at 60° and 56° is scarcely noticeable, while the quantity cut I think is increased. Firing should continue in the spring the same as in the fall, as long as there is danger of the temperature going below 58°. The necessity of firing in spring and fall is very often overlooked and is attended with disagreeable results.

Watering and airing are the two most essential factors in the growing of roses after they have been planted, and I wish some fixed rule could be laid down for the guidance of all, as here is where most failures are made, but it is impossible and the use of water must be regulated by the person having the plants in charge. I wish to make a distinction here in regard to watering and syringing. It is believed, in many places, that watering and syringing are the same, differing only in the amount applied. If they want to syringe the foliage is given a slight wetting; if they want to water the foliage is given a good wetting, enough falling upon the beds to constitute a watering. This is entirely wrong, as it is impossible to get the beds uniformly moist, or to pick out the dry spots while this system is pursued. A syringing should consist of a small amount of water applied with enough force to keep the plants free from spiders and to moisten and freshen up the foliage without having any amount fall upon the soil; when syringing is performed in this manner it is an exceptional day that it can not be performed and have the house dry by night. In watering the stream should be turned upon the soil and no attempt made to moisten the foliage; every bed should be carefully examined during the morning in the winter season and whatever requires water be given it. In examining the benches it is advisable to have a sharp piece of iron or wood, something with which you can go to the bottom of the bench to find out its condition, as the appearance of the surface will often mislead one. At times the benches will go several days without water, and again spots will be found that will require water for several days in succession, showing it to be imperative to examine them every day. I think a mistake is made very often by keeping the benches too dry in summer. The plants after having taken hold of the soil and with the amount of air given at that season can take plenty of water. It is an advantage to have the water used in the winter warmed to the temperature of the house, and if possible there should be some arrangement for doing so. Soils are different and require different treatment in regard to water as well as other matters, and it should be the aim of every grower to study and understand his soil

Air should be given upon all favorable occasions and as much as possible, avoiding, however, all drafts; too much air is as injurious as too little, and the knowledge and skill necessary to attend to it properly can only be acquired by practice and observation. During the summer they should have air day and night, as the cooler night air tends to toughen the foliage, rendering it more impervious to disease. During the winter months air should be given every bright day, even though heat is necessary to keep the temperature where required. During winter and spring it is a rare thing for us to have the heat shut off the houses during the day, even though there may be six or eight inches of air on at the time, thus air keeps the foliage strong and healthy. On bright days the temperature is kept at from 75° to 80°; on what may be called half-bright days, or times when it is hazy or cloudy, from 70° to 75° is maintained, and in dull gloomy weather 65° is carried. It will require considerable time to keep the air properly looked after, as it often requires shifting every half hour or so, but it will pay to attend to it properly, and in making a change it is better to go over it twice rather than make a big shift of it so as to save time.

Insects and fungus will think you have been fitting up a paradise for them and will proceed to locate if steps are not taken to check them. Mildew is best guarded against by watching for drafts, or anything that would tend to give the plants a check. In the winter sulphur applied to the heating pipes is the best preventive; in spring and fall powdered sulphur or fostite dusted on the plants will check its spread. Black spot affects some varieties of roses badly; keeping the house free from moisture during the night and the burning of all affected leaves will keep it in check. Red spider can only be fought with water, it should be applied with enough force to make the habitation disagreeable and he will depart; a dry, warm atmosphere is his delight and he can generally be found around in the corners where the air does not circulate or the syringe reach. Greenfly is probably the best known insect enemy of the rose and is very troublesome where given a chance; luckily, however, it succumbs to tobacco in almost any form, either the fumes when stems are laid in the houses or the smoke when they are burned. Lately an article known as extract of tobacco has been placed on the market and from experience in treating a house that was allowed to get pretty badly infested, so as to make a good trial, I can assure all it is a success. After the applications it was hard work to find a fly anywhere and it was six weeks before the house received another treatment. I feel confident that the extract used once a month will keep any place clean. The rose bug raised quite a noise some years ago, but since the practice of replanting stock every year has about become universal it is almost lost sight of, as it requires more than a season for it to do much damage; hand picking is the only safeguard. Thrip appear in the spring of the year and when they come it is in such numbers that they ruin a house of flowers in no time, they puncture the petals, causing the tips to turn brown. As far as has been learned nothing has any effect upon them, they hide around in the base of the petals where nothing can reach them; they come from the outside, as they can be found on the grasses and weeds as plentifully as in the houses. White grub often ruin whole benches of roses by eating off the roots. The best way to coun-



DWARFED JAPANESE MAPLES.

teract this evil is to carefully examine the soil and manure used for planting the roses in when turning it and kill all that are found; if during the summer you notice a plant hanging, while those around it are doing well, search around the roots and the chances are that you will find a grub there. Nematoids, the cause of club root, have only recently appeared in such quantities as to make them dangerous to rose growers. There appears to be no way to get rid of them after they are once established in the plant; the only safeguard is to treat the soil in some way so as to kill them before it is brought into the houses, either by spreading during cold weather so as to freeze it, or heating. I think probably as they exist on the living roots of plants piling the soil for a season so as to kill all vegetable matter might starve them out.

After having brought your plants into flower they will require cutting and sending to market; this is a branch of the work which requires the most careful attention, for if our output does not reach the market in good shape all hope of compensative returns for our work vanishes. The cutting should be done by a careful, painstaking person and should always be done by the same party, as different roses require to be cut at different stages of development, and these can only be learned by practice. Cutting should be done twice a day, morning and evening; at times, however, they will require attention and going-over at about 11 o'clock. After being cut they should be sorted and each grade placed separate; stand in a cool room or cellar with the stems in water until wanted for use.

In packing take care to have them properly placed, no crowding or bending of stems should be allowed, but they should be snug enough to remain stationary while in transit. It is a great advantage to have your stock make a good impression when unpacked, especially in times of an abundant supply. If soft paper is wanted use tissue manilla, avoid wax paper, as it bruises the petals. Have your stock graded into first and seconds, even though there be very few seconds. The advantage of having a uniform grade of goods and nice appearance has been long recognized in other lines of business, but this knowledge seems to be sadly lacking in our own profession.

I would like to say in conclusion, systematize your work as much as possible; let each man have his allotted duties and hold them to their performance, attend to all details, see that nothing, however small a matter, is slighted, as the sum of small things makes success; keep your plants growing and avoid all checks, and much as we think we know about roses I venture to assert that no one as yet knows the capabilities or possibilities of the rose plant.

Dwarfed Japanese Maples.

The accompanying illustration is engraved from a photograph of two specimens of dwarfed Japanese maples for which we are indebted to Mr. Shibota Tomiyami, of Kobe, Japan, now at the World's Fair.

As noted the trees are kept in the form of a small bush. In many cases the tree is simply a stump with numerous different varieties of maple grafted upon it. In the miniature Japanese garden at the Fair is to be seen a maple of this form upon which no less than 24 different varieties have been grafted.

World's Fair.

During the past week there were some interesting gladioli to be seen at the Fair, though not as much in this line as one would expect. A pleasing exhibit of cut blooms was shown in the south curtain of the Horticultural Building by the Cushman Gladiolus Co., of Euclid, Ohio, including good blooms of familiar types. J. C. Vaughan made a display of gladioli and sweet peas in connection with his seed exhibit in the north end of the building, which brightened up the exhibit wonderfully, but these were all the cut blooms noted. Outside, however, in the beds north of the building, the new hybrid gladioli shown by V. Lemoine & fils, Nancy, France, are now in good bloom, and promise to continue for some time. They are remarkably beautiful; the rich colors, unique markings, and broad spreading flowers are so distinct from the ordinary type. They are all the named sorts. Dr. H. P. Walcott is a light scarlet of remarkable size, a most beautiful flower; Jeanne d'Arc a light pink, slightly marked with sulphur; Beaurepaire a rich deep pink; Mme. Lemoinier a remarkable primrose yellow, the lower petals stained with blood red. This was a particularly fine sort. Abbe Frauente is a rich crimson, with a sulphur band across the lower petals; Vesuve, deep fiery red, the throat and lower petals deepening to black; Gil Blas, salmon, the lower petals marked with a butterfly of deep red and sulphur, unique; M. Leveque, deep red; Nuee bleue, deep rich heliotrope. Every variety is worthy of note, and their richness of tint and marking is incomparable. There is also a display of gladiolus on the Island, where quite a quantity is in bloom in the rose garden.

In the Horticultural Building there are no recent additions, though some changes in arrangement are made from time to time. The E. G. Hill begonias, to which reference has been made previously, have been supplied with excellent labels, which leave nothing to be desired in the way of clearness. Among these plants is Count Louis Erdody, a noticeable sort marked by a strange peculiarity in the leaf. Instead of the leaf formation ceasing at the juncture with the stems it continues in a spiral form, giving the appearance of a little curl or rosette on the top of the leaf where it joins the stem. It is a handsome leaf, silver, with green nerves, and reddish border, and covered with strong hairs. Nickel Plate is another fine sort; leaf green and silver, the green border being covered with fine silver dots. Perle Humfeld is a large leaf, oddly splashed with silver. Inimitable is a large silvery leaf, very strong, covered with red hair. Anna Dorner is a fine acuminate leaf, green splashed with silver. Seedling number 83 is very large, color velvety green, with a broad silver band.

It is gratifying to note that the tuberous begonias continue to improve; those in the New York greenhouse are getting on very well, but all buds are removed, as soon as they show. There will be some beautiful lily of the valley to show the visiting florists; a quantity is already in bloom, being only about thirteen days in the sand, and is being kept in the coolest place to hold it back. Another lot is now started, and is expected in by the end of the week. These are some of Ernst Asmus' cold storage pips, and they are fine; not one in the lot has gone blind, and it is as fine a batch of valley as one could wish to see. It will probably be displayed under the dome. The gloxinias are just about over.

On the Wooded Island the greatest show now is made by the varieties of Phlox decussata, which are blooming very profusely. Ellwanger & Barry have a fine show in their pæony bed, the pæonies, of course, being entirely obscured by the tall phlox. A mass of the beautiful white variety, Queen Marie, is very fine; the flowers are very large, pure white, and waxy in texture. It is a tall-growing sort and very free blooming. H. Cannell of Swanley, Kent, (England) now has his pæony bed gay with phlox; Rea Bros., of Norwood, Mass., show some good sorts in their herbaceous beds, and there is quite a display in Pitcher & Manda's beds. Among them is a very good white, The Pearl; Mme. Moisette, a good pink with a darker eye, and Mrs. Goodwine, a deeper pink. In the German beds there is some good Drummond phlox, and one

bed filled with the oddly shaped Star of Quedlinburg is doing very well.

Among flowers now in bloom on the Island Pardanthus (Belamcanda) chinensis is flowering freely, and making quite a show; Liatris spicata is covered with tall purple spikes, and a few larkspurs and harebells are still in bloom. But a good deal of the Island is showing the effect of the severe drouth; many shrubs are suffering, and a large proportion of the herbaceous plants and bedding. Artificial watering can never take the place of good rainfall, and this light hungry soil dries out quickly. Nor is it possible for the present force at command to manage so much extra watering. A day of steady rain would be a wonderful advantage.

How Can We Best Increase the Love of Flowers Among the People.

BY GEO. C. WATSON, PHILADELPHIA.

[*Read before the Society of American Florists at the St. Louis Convention.*]

With many enthusiasts in the florist business, working for an increase of a love of flowers among the people is a hobby quite apart from any pecuniary returns resulting therefrom, and it is safe to say that this missionary spirit is present in a greater or lesser degree with us all. When to this is added the fact that when such an increase is achieved the increased demand for our products increases our profits and the greater volume of business done improves the standing of the trade in the community, it is apparent why this question has such a vital interest for every one of us, and why we ought all to labor unceasingly to foster a love of flowers among the people—why we should think of it by day and dream of it by night, for there is both glory, honor and profit in the attainment of this noble and inspiring object.

The Society of American Florists was formed to further the interests of its members in every legitimate way, and if it can by any possible means increase the love of flowers among the people it will be doing the most effective kind of service. Indeed it is generally admitted that it has already been a powerful factor in this, although perhaps indirectly. The great extension of intercourse which this society has created among the members of the craft all over this continent; the improved methods of cultivation introduced by its discussions, and the consequent improvement in quality and lessening of cost of flowers and plants; the great and beneficial influence of its strenuous efforts for correctness in nomenclature; all these and various other influences directly emanating from the S. A. F. have undoubtedly done much to increase a love of flowers among the people. One of the first duties, therefore, is to strongly support the S. A. F. in the work that it is doing, and to give it individually all the assistance we possibly can.

The various florists' clubs scattered over the country are also a powerful factor, much in the same way as is the S. A. F. although within more prescribed limits. Every florist should belong to the local club, if there is one in his locality, and if there isn't he should set about forming one at once. It is the most astonishing thing to an onlooker to see the way the florists of some towns behave towards one another. Ten years ago it was worse than it is now; but there is a good deal of the old feeling still left in some localities. How much more sensible it would be, if instead of trying to cut one another's throats, each would join hands with the other and spend their surplus energies in devising ways and means to induce their constituency to buy more flowers and plant more plants for the mutual advantage of all concerned. Too much competition is a bad thing; but if the competition is present whether you like it or whether you don't, the wisest thing to do is to make it as innocuous as possible. The way to make competition innocuous is not by cutting prices and trying to freeze the other fellow out. That plan hurts the one party about as much as the other. A better plan is to get together and try to devise a scheme for enlarging the market; to find out what each can grow best, and to endeavor not to be both hunting the same hare. The florists' club is the best agency through which to accomplish an object like this where concerted action is desirable. And don't think that because there is but a handful of you in the locality that a club is impracticable. The number is immaterial. Only get together, that is the main point. And don't sit down and wait for your neighbor to take the initiative, Make up your mind that you are going to do it yourself, and that you are going to get all the others interested, to help you. And don't give up because you find some that won't join in on the first asking. Don't be afraid of obstacles. Keep at it. The way opposition melts in the face of persistent effort is remarkable.

Besides being active in the S. A. F. and the local club, every florist should subscribe for and read carefully the trade papers published in the interests of the craft. One may read therein things he already knows; but that's nothing. He might also miss something he doesn't know, and it's a pretty smart man that knows everything. One cannot reach their full measure of usefulness in spreading a love for flowers among the people unless he keeps himself thoroughly posted as to what's going on.

Support the horticultural society. If you have not got such make it your business to form one. A horticultural society is instituted for the very purpose of spreading a love of flowers among the people. By *support* it is not meant that you are simply to join the society and pay your yearly dues. That is only *passive* support. Attend its meetings regularly. Be prepared to talk on interesting subjects connected with horticulture whenever there is a chance. Grow something for the exhibitions. Be prepared to sacrifice a little in the good cause, even if there be no great inducement in the way of money prizes for exhibits. If you have nothing worthy of entering for a prize, be sure you enter something for *exhibition* and mark it *not for competition*. And grow something a little bit out of the common for this very purpose. A novelty need not be an absolutely *new* plant. Anything good, if a little bit neglected for a year or two, will give almost as good results as a "Stanley's wash-tub" or anything else from outlandish places. Too many of us lay too much stress on the premiums. If we don't get first we sulk and kick and makes things generally disagreeable all around. We are too apt to forget that the best of judges are liable to err; that we can't all get the first prize; that our turn will come next; and that the prizes are a secondary consideration anyway in comparison to helping to spread a love of flowers among the people; and that our individual exhibit is perhaps doing more for the cause than some that have been luckier in prize getting on account of having a pot an inch smaller or something.

Endeavor to get all the wealthy people, as well as those not so blest, into your society. And when you get them in impress upon them that they are *active members* and find ways for them *to be active*. Many who are members *now*, do nothing, simply because they don't know what to do nor how to do it. If you go to a man who is a member and who has a conservatory for his own pleasure and say to him that the society is desirous of making an exhibit of some particular class of plants a feature at its next show and that you want his assistance, ten to one he will gladly do what is required, and when his gardener goes to him about the same matter he will have no trouble in getting the requisite authority to go ahead. Without this little stimulation of the interest of the owner, a private gardener is often afraid to grow anything new of his own accord, and sometimes he thinks the prizes are not big enough; but if once he knows that the owner wishes it, the prizes become a secondary consideration. Being a member of a horticultural society implies a certain amount of obligation to further the interests of the institution, and it should be firmly impressed on each and every one who joins, that he or she is expected to become an active worker, and the executive should see to it that *some duty* is entrusted to them at as early a date as possible.

Train the young. Much has already been said at previous conventions on this; but it is of such importance that it cannot be too often insisted on in any effort for the advancement of horticulture. The Massachusetts Horticultural Society, the Amateur Gardener's Society of Springfield, Mass., and perhaps some others have a department specially devoted to this purpose, and it should form a part of the work of every horticultural and kindred society in the country. The impressions received in childhood are deep and lasting, and we are derelict in our duty if we do not make every effort possible to foster a love of gardening in the young. Many Sunday schools make a feature of plant and flower growing and exhibiting same. These deserve every encouragement. Something might be done with the public schools.

[CONCLUDED NEXT WEEK.]

The Horticultural Congress.

The following is the outline program so far as arranged for the General Horticultural Congress to be held at the Art Institute, Adams street and Michigan avenue, Chicago, beginning August 16th and continuing three days:

GENERAL SESSION, WEDNESDAY, AUGUST 16, 10 A. M.

Technical Horticultural Education. Prof. Wm. Trelease, of Missouri Botanical Gardens.

Improvement and Care of Public Grounds.—Developing and Conserving Natural Beauty. Wm. McMillan, Buffalo Parks.

Relation of Experiment Stations to Commercial Horticulture. Chas. W. Garfield, of Michigan.

Horticultural Displays at Future World's Fairs. Prof. Dr. L. Wittmack, Berlin, Germany.

Horticulture and its General Relation to Art.

SEEDSMEN'S SESSION, THURSDAY, AUGUST 17, 10 A. M.

Pedigree, or Grade Races in Horticulture. Henri L. de Vilmorin, Paris, France.

Seed Growing in Denmark. J. Pedersen-Bjergaard, Copenhagen.

Comity in the Seed Trade. Jas. J. H. Gregory, Marblehead, Mass.

Knowledge in the Seed Trade. E. V. Hallock, Queens, N. Y.

Selection in its Relation to Seed Growing. C. L. Allen, Floral Park, N. Y.

American Seed Growing. C. C. Morse, Santa Clara, California.

NURSERYMEN'S SESSION, THURSDAY, AUG. 17, 10 A. M.

General.

Japanese Nurseries, Dwarfing of Plants and Miniature Gardening. Henry Izawa.

Interstate Laws to Control Insects and Diseases. Edward Willets, John Rock.

Forestry and Nursery. Heir Runnebaum, Eberswalle, Prussia.

Specific.

Present Status of the Nursery Trade in Europe. Victor Lemoine, H. Waterer.

In Our Own South.

In Mississippi Valley.

On Pacific Slope. W. R. Williams, Seth Llewellyn.

History of Nursery Business in America.

FLORIST'S SESSION, THURSDAY, AUGUST 17, 8 P. M.

Address of Welcome.

The Past of Floriculture. Prof. G. L. Goodale, Cambridge, Mass.

The Present of Floriculture. Robert Craig, Philadelphia, Pa.

The Future of Floriculture. E. G. Hill, Richmond, Ind.

Hybridization and the Benefit Accruing to Horticulture. Prof. Chas. Naudin, Antibes, France.

How Best to Subserve and Protect the Interests of the Originator of New Plants. Luther Burbank, Santa Rosa, Cal.

The Packing and Shipping of Plants.

The Utilitarian Advantage and Importance of Floriculture.

POMOLOGIST'S SESSION, THURSDAY, AUGUST 17, 8 P. M.

General.

Amelioration of our Native Fruits by Artificial Crossing and Selection.

Location and Environment as Affecting the Evolution of Fruits. G. B. Brackett, Iowa.

Mediterranean Fruits.

Catalogues and Nomenclature. T. T. Lyon, South Haven, Mich.

Specific.

Our Citrus Belts.

Commercial Apple Culture.

Peach Areas and Problems.

Vine Culture and Products. Geo. Snow, New York; Geo. W. Campbell, Delaware, Ohio.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By experienced rose grower, single; best of reference. Address E S E, 424 Washington St., Brighton, Mass.

SITUATION WANTED—Indiana preferred; commercial or store. Good all round man; single; references. Address J H, Pequannock, N. J.

SITUATION WANTED—As foreman in commercial place; age 30; married. First-class references. Address ROSEN, box 61, Providence, R. I.

SITUATION WANTED—By a good florist as foreman or assistant—commercial place preferred. Many years' experience in the business. Good recommendations. Address W F, care Am. Florist.

SITUATION WANTED—By a single Scotchman; age 30 years; is a first-class propagator and grower; would like to negotiate with party requiring the service of same. Competent to take charge if wanted. Address GROWER, care American Florist.

SITUATION WANTED—A Hollander 24 years of age, having several years' experience in Holland in gardening, planting of trees and flowers, laying out of gardens, etc., desires situation. Best of references given. Address HOLLAND, care Am. Florist.

SITUATION WANTED—As manager or foreman in a large commercial place; thoroughly posted in the growing of roses, carnations, violets, chrysanthemums, decorative and bedding plants, the forcing of all kinds of bulbs, making up, etc.; 22 years' experience; single. Good testimonials. State wages, etc. FLORIST, 41 Steinway Ave., Cleveland, O.

SITUATION WANTED—By single, young, practical florist and gardener; wide experience in both branches. Also in mushroom culture, fruit growing and landscape work. Life experience. Last 5 years as head florist and gardener in large public institution. Not afraid of work. Best of references. Prefer a private place. Address H. SWABY, box 56, Clifton, Green Co., O.

WANTED—A handy man to take charge of mushroom cellars. Inquire for particulars at once. Address HERMAN CLAUSEN, Gypsum, Ottawa Co., Ohio.

WANTED—A good all round, married man to grow roses, carnations and violets for retail trade. A sober, pushing man of experience. State wages wanted with house. M. J. LYNCH, Poughkeepsie, N. Y.

WANTED—A commercial traveler for the United States, on 10 per cent. commission, for one of the oldest and best nurseries of Ghent, Belgium. Address with references, E V C, care American Florist, Chicago.

WANTED—Young, single man; must have experience in growing roses and carnations; must know something about design work, and speak English and German. Good wages and steady work for the right man. Apply to A. KLOKNER, 219 Grand Ave., Milwaukee, Wis.

FOR SALE OR LET—A valuable florist establishment near depot. Apply JACOB MENDEL, Nyack, N. Y.

FOR SALE—1000 feet of four-inch pipe and fittings in good condition. Price $80 on board cars. Address B. L. Clark, West St., Randolph, Mass.

FOR SALE—The W. D. Allen greenhouses at Summerdale, Chicago. Eleven houses. Will be sold at a low price for cash. Address J. H. ALLEN, Summerdale, Ill.

FOR SALE—The rarest chance to procure a well established business. Only $500 cash required; in an excellent neighborhood. For particulars, address ISAAC A. PASSMORE, Oxford, Pa.

FOR SALE—2,000 feet 4-inch pipe at 7 cents a foot. Tees and elbows at 15 cents. Also ½ doz. valves. Address J. F. KLIMMER, Desplaines and Harrison Ave., Oak Park, Ill.

FOR SALE—The greenhouses, stock and good will of the old established florist business of the late T. C. Ingram. Terms reasonable. Address ALFRED HAMLIN, 1011 St. Louis Ave., Kansas City, Mo.

FOR SALE CHEAP—On account of leaving city will sell my established floral store. Good trade, first-class location. Will show books as to amount of sales. This is a snap. Address F. LOCKYEAR, 302 31st St., Chicago.

FOR SALE—At a sacrifice; one of the best florist's businesses in Canada, established over 30 years; four greenhouses, with hot water heating; garden crop in high state of cultivation; no opposition; satisfactory reasons for selling. Address THOS. SINCLAIR & SON, Ingersoll, Ontario, Canada.

FOR SALE—My retail florist business at 897 and 899 W. Madison street, Chicago. Completely stocked with supplies and plants. Good horses, wagon and every thing that a first-class store needs. 42 ft. frontage of large show glass. This is no run-down business but one of the best paying in this city. Cause for selling, too much other business. Apply to T. J. CORBREY, 45 Lake St., Florists' Exchange.

FOR RENT OR SALE—In a city of 38,000, a private place (small acre), well stocked, on street car line, one house 50x16, 20 feet high, planted with Asparagus plumosus and smilax, one house for general stock 75x16; dwelling with 7 rooms, good barn; business not overdone. Cut flowers and spring trade very good. Everything new; heated by hot water; just the place for a married man with a small capital. Rent $350 per year for three years. Owner wishes to go traveling. Address C F P, care American Florist, Chicago.

FOR SALE.

THE OIL CITY GREENHOUSES,

OIL CITY, PA.

4,500 feet of glass, heated with No. 7 Furman steam boiler. Houses in good repair and well stocked. A bargain.

FOR SALE OR RENT.

Rose and cut flower growing plant containing about 35,000 square feet of glass; houses heated by steam and hot water; all in good condition; well stocked with roses, ferns, palms, etc. Only 18 minutes ride from center of city. If you mean business, address FLORIST, care Chas. E. Prather, Louisville, Ky.

FOR SALE.

Steel Boiler, Kroeschell maker; 3 years in use. Length, 10 feet 9 inches; Width, 4 feet; 20x4-inch flues; 6x4-inch outlet; 6x4-inch inlet. Also large iron front and arch bars. Heating capacity, 6,000 feet 4-inch pipes. Price, $175.00 cash.

R. J. LEWIS,
1116 Dunning St., CHICAGO.

FOR SALE OR TO RENT.

The following greenhouse property, situated on the outskirts of Springfield, the City of Houses; or will sell Greenhouses, Stock and Fixtures and give ten years' lease of 2 acres land. Ten houses in all—5 houses, 10 feet wide, 65 feet long; 4 houses, 18 feet wide, 65 feet long; 1 house, 18 feet wide, 65 feet long. Steam plant! New double Florida Boiler. Stock in good condition, with a large and extra good home market. This is an opportunity in a life-time, as present owner has other interests to look after. If you are looking for a chance, apply at once to

N. D. WINTER.
5 Elm Street, SPRINGFIELD, MASS.

We Sell Mushroom Spawn.

LILIUM HARRISII AND DUTCH BULBS.

Special Low Prices to Florists and Dealers.

WEEBER & DON,
Seed Merchants and Growers,
114 Chambers St., New York.

A NEW PLANT FOR THE FLORIST.

Dracæna Sanderiana.

NEW. 1893.

The best of all variegated Dracænas, with green and silvery striped foliage; bright, decorative, free growing, and possessing **MOST EXTRAORDINARY LASTING PROPERTIES.**

It has gained unanimous First Prizes, and First-Class Certificates wherever shown.

It was one of six New Plants that won the First Prize at the Great International Exhibition at Ghent, this year. The same specimen, after traveling over 5,000 miles, was exhibited in splendid health at the Chicago Exposition, which demonstrates its most robust constitution.

Price List on application

TO F. SANDER & CO., St. Albans, England,

OR *A. DIMMOCK, Agent, 205 Greenwich St., NEW YORK CITY.*

Mention American Florist.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

New York.

The James Taplin greenhouses at Maywood, N. J., are now closed. Mrs. Taplin retiring from business. It is doubtful whether the place will again be occupied by a florist's business, as property in that vicinity is now very desirable for residence purposes. Jas. S. Taplin, who had charge of the business as administrator, goes to Madison as foreman for T. J. Slaughter.

YONKERS, N. Y.—A chrysanthemum show will be given here October 31 to November 4 under the auspices of the Yonkers Teutonia Society. The premium list has been printed and copies may be had on application to Mr. John Beattie, manager of the exhibition, Riverdale, New York City.

BLOOMSBURG, PA.—The wife of Mr. J. L. Dillon died July 30, aged 44 years. She had been an invalid for about ten years, but until the last two years had been able to attend to her household duties. Her husband and two children survive her. Mr. Dillon will have the sincere sympathy of his many friends in the trade in his bereavement.

TOPEKA, KANS.—In the future the business formerly carried on by the Boneita Greenhouses will be done by the Bates Floral Co. To meet the demands of their growing business more houses were needed, so Mr. W. L. Bates' father, Mr. Geo. P. Bates, took an interest in the concern and advanced the money to make the needed improvements. They have leased a building in the city and about September 1 will open a down town store.

DO YOU WANT an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our trade directory and reference book.

"JACQ" ROSES the Year Around.

We are now Cutting THOUSANDS DAILY of

* METEOR ROSES *

The finest Crimson Summer Rose, equal to "Jacq" in color and far superior in keeping qualities. Can supply it in quantity at all times. Prices on application.

F. R. PIERSON COMPANY,
TARRYTOWN-ON-HUDSON, NEW YORK.

THEY SAY That ASPARAGUS PLUMOSUS NANUS

at 50 cents a string, 8 to 12 feet in length, is the cheapest and best material for decorating, as it will stand longer and look better than any other green in this hot weather

ORDER IN LARGE OR SMALL QUANTITIES, FROM

W. H. ELLIOTT, Brighton, Mass.

THE SMILAX KING!

Who? KOFFMAN,
Where? WALDEN, Orange Co., N. Y.

What? SMILAX

25c. a string; 20c. a string by the hundred; 18c. a string by the thousand.

When? ALL THE YEAR AROUND.

And he pays the Express.

Mention American Florist.

Phœnix rupicola.

This useful and beautiful Date Palm in EXTRA FINE PLANTS, growing in from 7 to 10-inch pots, from $3.50 to $7.50 each, according to size.

EDWIN LONSDALE, Wyndmoor, STATION "G," (Chestnut Hill P. O.) PHILADELPHIA.

CATALOGUE PRINTING. ELECTROTYPING.

Done with expert ability for Florists, Nurserymen, Seedsmen. Write to

J. Horace McFarland Co., HARRISBURG, PA.

WHOLESALE FLORISTS

La Roche & Stahl

N. E. CORNER 13th & Chestnut Sts., PHILADELPHIA.

SAMUEL S. PENNOCK,
Wholesale Florist
REMOVED TO REAR OF 42 S. 16th ST.,
Philadelphia, Pa.

HARDY CUT FERNS
LAUREL FESTOONING, ETC.

The only place in the world where you can **Always** get them,

H. E. Hartford,
18 Chapman Place, BOSTON, MASS.

CUT BLOOMS OF ASTERS,

Carefully packed and shipped at short notice. Price, $1.00 per 100.

Address J. G. BURROW, Fishkill, N. Y.

Dissolution of Partnership.

The co-partnership heretofore existing between Thomas Young, Jr. and John Young under the firm name of Young Bros., is this day dissolved by mutual consent.

The business will be continued as usual at 20 W. 24th St. by Thomas Young, Jr., who will collect all outstanding accounts due the late firm.

New York, August 1st, 1893.

THOMAS YOUNG, Jr.
JOHN YOUNG.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO.

	Per 100
Perle, Niphetos, Gontier	$2.00@$3.00
Brides, Mermets, La France	3.00@ 4.00
Meteors	5.00
Carnations, short	.50
" long	1.00
Adiantum	1.00
Valley	3.00
Smilax	12.50@16.00

Ferns, common, 30c. per 100; $2 50 per 1000.

Kennicott Bros. Co.
WHOLESALE CUT FLOWERS,
34 & 36 RANDOLPH STREET,
CHICAGO, ILL.
WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
126 Dearborn Street, CHICAGO.
Store Closes Nights 9 P. M.; Sunday 2 P. M.

NILES CENTER FLORAL CO.
Incorporated.
WHOLESALE GROWERS OF
CUT FLOWERS of ALL KINDS
and Dealers in FLORISTS' SUPPLIES.
CHAS. W. McKELLAR, Mgr.
In Chicago Cut Flower Exchange,
45 Lake St., CHICAGO.

M. OLSON,
Wholesale FLORIST,
66 WABASH AVENUE,
Tetephone 4786. CHICAGO, ILL.

T. J. CORBREY,
Wholesale and Commission
FLORIST,
45 Lake St., CHICAGO, ILL.
In Chicago Cut Flower Exchange. . . .

A. G. PRINCE & CO.,
Wholesale and Commission
FLORISTS,
45 LAKE STREET,
In Chicago Cut Flower Exchange. CHICAGO.

DAN'L B. LONG,
COMMISSION • FLORIST,
495 Washington St., BUFFALO, N. Y.
FORCING BULBS, FLORISTS' SUPPLIES,
LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application.

H. L. SUNDERBRUCH,
WHOLESALE FLORIST
4TH & WALNUT STREETS,
Cincinnati, O.

Wholesale Market.

Cut Flowers.

NEW YORK, Aug. 8.	
Roses	1.00@ 3.00
" Beauty	5.00@15.00
Carnations	.25@ .50
Valley	3.00@ 4.00
Sweet Peas, per 100 bunches	.50
Asters	1.00
Adiantums	1.00
Smilax	15.00

BOSTON, Aug. 8.	
Roses	3.00@ 4.0
Carnations	.35@ 1.00
Lily of the valley	3.00@ 4 00
Peas, per 1000	.25@ .35
Coreopsis, cornflower	.50
Asters	1.00
Adiantum	1.00
Smilax	12.50
Asparagus plumosus	50.00

PHILADELPHIA Aug. 8.	
Roses	2.00@ 3.00
" Besutles	15.00@20.00
" Meteors	6 00
Carnations	.75@ 1.00
Asters	1.00
Sweet peas	.25@ .30
Gladiolus	5.00
Valley	4.00
Pond lilies	.50
White hollyhocks	.75@ 1.00
Balsams	.25@ .50
Adiantum	.75@ 1.00
Smilax	15.00
Asparagus	50.00

CHICAGO, Aug. 8.	
Roses, Perles, Gulliot, Niphetos	2.00@ 3.00
" Albany, Bride	3.00@ 4.00
" Meteor	5.00
" Besutles	8.00@10.00
Carnations	.50@ 1.00
Sweet Peas	.15
Auratum	6.00@ 8.00
Gladiolus, longiflorum	4.00@ 6.00
Cornflowers	.20
Asters	1.00
Hollyhocks, white	1.00
Valley	1.00@ 3.00
Dahlias	1.00
Smilax	12.00@15.00
Asparagus	60.00

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers AND Florists' Supplies
WHOLESALE.
67 Bromfield Street, BOSTON, MASS.

WHOLESALE
FLORISTS,
JOBBERS IN . . .
. . FLORISTS' SUPPLIES,
METS, FLORISTS'
BRIDES, VASES.
GONTIERS,
CARNATIONS,
ALWAYS ON HAND.
1 Music Hall Place,
BOSTON, MASS.
HORTICULTURAL AUCTIONEERS. . .

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St., BOSTON, MASS.
Mention American Florist.

Send for a Copy
OF OUR
TRADE DIRECTORY
AND REFERENCE BOOK.
PRICE $2.00.
AMERICAN FLORIST CO.,
P. O. Drawer 164. CHICAGO, ILL.

CUT SMILAX,
15 cts. per string till November 1st. Quality first-class. Special attention to orders by wire.
J. E. BONSALL & SON, 308 Garfield Ave., Salem, O.

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN
AND SHIPPERS OF
Choice Flowers.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST,
32 West 30th Street, NEW YORK.
Roses Shipped to all Points. Price list on application.

HUNTER & PURDY,
WHOLESALE DEALERS IN
CUT FLOWERS
51 W. 30th St., NEW YORK.
FRANK D. HUNTER. JAMES PURDY,
Formerly 112 W. 40th St

JAMES HART,
WHOLESALE FLORIST,
117 W. 30TH ST., NEW YORK.
The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHRS,
WHOLESALE
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.
Established 1879.

MILLANG BROS.,
Wholesale Florists,
17 WEST 28TH STREET,
NEW YORK.
BRANCH: Cut Flower Exchange, 408 E. 34th Street.

MICHAEL A. HART,
Wholesale AND Commission Florist
113 WEST 30TH STREET,
. . . . NEW YORK.
THE FINEST ROSES AND CARNATIONS.
Branch, at Cut Flower Exchange, 408 E. 34th St.

EDWARD C. HORAN,
34 W. 29th Street, NEW YORK,
Wholesale Florist
Careful Shipping to all parts of the country.
Price list on application.

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
WHOLESALE
FLORIST,
1122 PINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

W. ELLISON,
WHOLESALE
Cut Flowers AND Florists' Supplies
1402 PINE STEET,
St. Louis, Mo.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

J. C. VAUGHAN, Chicago, president; A. L. DON, New York, secretary and treasurer. The eleventh annual meeting at Chicago, August 14 to 16, 1893. Applications for membership should be addressed to Wm. Meggatt, chairman membership committee, Wethersfield, Conn.

Onion Sets, Philadelphia Crop Reports.

The following notes will be of interest as showing the state of the crop in this section. One of the largest handlers says: "We think the indications are that crops of onion sets are very short in this immediate section. The sets as a rule are small and excellent samples but are not turning out the bushels as in former seasons."

Another big operator says: "The onion set crop in this section is short of the average; many fields have been sadly damaged by maggot, while the excessive dry weather in the latter part of the season has reduced the crop in a material degree."

Another report is even more discouraging: "So far as we can learn of the crop in this section it will be very short indeed: do not think half a crop will be realized. Many growers have informed us that they will not get back the price of their seed. High prices will rule of course. We think when all reports are in it will be the lightest crop in many years."

Chillicothe, O., reports about two-thirds of a crop.

Chicago reports about same yield as last season and of better quality.

THE LOHRMAN SEED CO., of Detroit are succeeded by Lohrman, Brotherton & Co., Mr. Phillip Breitmeyer being admitted as a special partner.

MR. ENOS S. HARNDEN, the new special agent for the Government Seed Department, is reported to have so far saved the government over 25% on purchases he has made.

THE American Pomological Society has issued a circular announcing that it is deemed inexpedient to hold the regular biennial session at Chicago August 16 to 19 as had been intended, and the executive committee has therefore decided to call a social reunion of the members to convene at the Art Palace on the Lake front, Chicago, at 4 p. m. August 17, 1893, when the time and place for the next regular biennial session will be agreed upon. The members are urged to be present during the sessions of the Horticultural Congress, August 16 to 19.

SMILAX.

First-class, from 2½-inch pots, $2.50 per 100; $20.00 per 1000. Sample free.

Address J. G. Burrow,
FISHKILL, N. Y.

MARIE LOUISE VIOLETS

Field grown plants. Fine stock.

PER HUNDRED.....$10.00
PER THOUSAND..... 80.00
500 at 1000 rate.

C. R. KNAPP,
P. O. box 62. NEW HAMBURGH, N. Y.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.



Roman Hyacinths,
P. W. Narcissus,
L. Harrisii, Freesias,
NOW READY.

ROSES FOR FORCING.
PERLES, BRIDES, LA FRANCE, ETC.,
per 100 $5.00; per 1000 $45.00.
Special C. SOUPERT, 2½-inch, fine stuff, per 100 $3.50; 3½-inch, per 100 $8.00.

VAUGHAN'S INTERNATIONAL PANSY MIXTURE,
Now Ready, is a World Beater.

Vaughan's Seed Store,
148 W. Washington St., CHICAGO. 26 Barclay St., NEW YORK.

HARRISII, ROMANS
NOW READY.
Our stock is unsurpassed, the bulbs are solid, thoroughly ripened and cured, well formed and up to measurement.

FREESIAS.
Select Stock. Per 100, 75 cents; per 1,000, $4.50.

PANSY SEED.
BARNARD'S FLORIST MIXTURE is popular wherever tried. Per trade packet, 25 cents; per ⅛ ounce, $1.00.

CANE STAKES, HORN SHAVING, BONE MEAL, ETC.

W. W. Barnard & Co.
6 and 8 N. Clark Street, CHICAGO.

ONION SEED
OUR SPECIALTY.
Grown from selected Onions and the purest stock in the United States.

1893 CROP 1893

Yellow Globe Danvers,
Yellow Flat Danvers,
Extra Early Red,
Wethersfield.
} Write for Prices.

COX SEED AND PLANT CO.
SAN FRANCISCO, CAL.



Write for Wholesale List.
MICHEL PLANT AND BULB CO.,
ST. LOUIS, MO.

Berlin Lily of the Valley Pips,
A 1 QUALITY.
I. MARTENS, HAMBURG, GERMANY.

Always mention the American Florist when writing to advertisers.

100,000 Freesias.
Extra fine select stock. Bulbs running fully 500 to the pound.
$5.00 PER 1000 DELIVERED.
:- Apply at Once -:

NOW READY : :
: CALLAS in all sizes, large stock.
California Bulbs—LONGIFLORUMS in August.
We ship Auratums, Rubrums, Albums in October. Send for our new Price List.

H. H. BERGER & CO.,
SAN FRANCISCO, CAL.
Mention American Florist.

HULSEBOSCH BROS.,
BULB AND PLANT GROWERS,
OVERVEEN, near Haarlem, HOLLAND.

	Per 100	1000
Lilium Harrisii, 4 to 5-inch in circ.	$2.20	$19.00
" " 5 to 7-inch in circ.	3.00	24.00
" " 7 to 9-inch in circ.	5.25	47.00
" " 9 to 12-inch in circ.	11.00	100.00
Lilium Longiflorum 10 per cent dearer than Lilium Harrisii.		
Roman Hyacinths, extra selected	2.50	22.00
" " top roots	3.00	25.00
Narcis. Totus Albus, extra selected	1.00	7.50
" " " Grandiflor'm, ext. s'l'c'd	1.30	11.00

Fall Wholesale Catalogue now ready. Address

A. HULSEBOSCH,
P. O. Box 3118. Warehouse 58 West Street,
NEW YORK CITY.
Mention American Florist.

G. J. MOFFATT,
Manufacturer of
PAPER BAGS AND ENVELOPES
Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN, CONN.

LILIUM HARRISII,
FREESIAS,
ROMANS,
Florists' Supplies, Wire Work. NOW READY.
WISCONSIN FLOWER EXCHANGE,
468 Milwaukee St., Milwaukee, Wis.

BULBS! BULBS!
Lilium Auratum, Spec. Rubrum, Spec. Album Lougi florum, etc. Order now.
Callas, Callas, at lowest rates: Fresh Cut Cycas leaves, prices and sizes to suit all. Fresh imported Cycas, lowest prices. Camellias, Pæonias, Japan Maples, and for general Japanese stock seeds. Remember we guarantee sound delivery, still goods travel at owner's risk. Apply to
F. GONZALEZ & CO.,
Nursery and Greenhouses, 303 to 312 Wayne Street,
SAN FRANCISCO, CAL.

Cape Flowers, new crop in best white quality at $1.00 the lb.; 10 lb. lots, $9 net.

Cycas Leaves (Sago Palms), natural prepared, equal to fresh cut in appearance, from 28-in. upwards, at 40c., 45c., 50c., 60c., 75c. and $1.00 each, according to length.

Metal Designs, Wreaths, Crosses, Anchors, etc. in the latest French styles, from 50 cents net apiece upwards.

Baskets of all styles, Plain and Fancy, for School Commencements, Dinners, Receptions, Favors, etc.

Supplies of all kinds, such as Bouquet Papers, Wax Paper, Foil, Immortelles, Letters, Wire Designs, Funeral Sheaves, Doves, etc. For prices consult our

Trade Catalogue, mailed free.

August Rölker & Sons,
136 & 138 W. 24th St., P. O. Station E. **New York.**



WHITE DOVES
FOR FLORISTS.
Largest and finest stock in the United States. Write for prices to
S. J. RUSSELL,
850 Montgomery St., Jersey City, N. J.

FOR SALE BY Messrs. F. E. McAllister, A. Herrmann, N. Steffens and Reed & Keller, New York; W. C. Krick, Brooklyn, N. Y.; H. Bayersdorfer & Co., Ernst Kaufmann and Marschuetz & Co., Philadelphia, Pa.; C. Ribsam & Sons, Trenton, N. J.; J. M. McCullough's Sons and B. P. Critchell & Co., Cincinnati, O.; J. C. Vaughan, Chicago, Ill.; Wisconsin Flower Exchange and Currie Bros., Milwaukee, Wis.; C. A. Kuehn, S. Mount & Co., C. Young & Sons Co., Wm Ellison and Jordan Floral Co., St. Louis, Mo.; Ed. S. Schmid, Washington, D. C.; G. W. Currey & Co. and Eckhardt & Co., Nashville, Tenn.; T. W. Wood & Sons, Richmond, Va.; U. J. Virgin, New Orleans, La.; D. B. Long, Buffalo, N. Y.; F. C. Huntington & Co., Indianapolis, Ind.; J. A. Simmers, Toronto, Ont.

Mention American Florist

H. BAYERSDORFER & CO.,
WHOLESALE
FLORISTS' SUPPLIES ONLY,
50 N. 4th Street,
PHILADELPHIA, PA.
Our new Catalogue is now out, free upon application.

MARSCHUETZ & CO.,
Florists' Supplies,
23 & 25 N. 4th St., PHILADELPHIA, PA.
Send for Catalogue.

ERNST KAUFMANN & CO.,
Florists' Supplies,
113 NORTH 4TH STREET,
PHILADELPHIA, PA.



Kills Mildew and Fungus Growth. What does?
GRAPE DUST.
Sold by Seedsmen.

Auguste van Geert,
Ghent, Belgium.
(ESTABLISHED 1808.)
K. J. KUYK,
SUCCESSOR.

Special Culture for the Trade.

ANDROMEDA JAPONICA, CROTONS,
ANTHURIUMS, DRACÆNAS,
ARALIA KERKHOVEANA, ERICAS.
" SIEBOLDII, EURYA LATIFOLIA,
" VEITCHII, LILACS FOR FORCING
ARAUCARIAS, METROSIDEROS SEMP.,
ASPARAGUS PLU. NANUS, OPHIOPOGON Jaburan. f.v
ASPIDISTRA, ORCHIDS,
AZALEAS. PALMS,
BAY TREES, PANDANUS,
CAMELLIAS, RHODODENDRONS,
And full strain of Rare Plants and Novelties

BULB FARMS AT HILLEGOM, HOLLAND.

☞Ask for catalogue and prices, if not already received.



TRY **DREER'S GARDEN SEEDS,** Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
HENRY A. DREER,
Philadelphia, Pa.

Smilax Plants.
Good strong roots, 1 year old last February, $3.00 per 100; $25.00 per 1000.
A limited supply **Cyclamen persicum giganteum,** large bulbs, $1.00 per doz.
WILL EXCHANGE FOR GOOD PALMS OR FERNS.
Guelf's Seed Store, Brockport, N. Y.

Cyclamen Seeds.
KOCH'S SUPERB PRIZE CYCLAMEN,
THE FINEST STRAIN IN THE WORLD.
Bright dark red 1000 seeds $4.50
Rose of Marlenthul 1000 seeds 4.50
White with carmine eye.....1000 seeds 3.75
Mont Blanc, extra 1000 seeds 6.25
Cash with order.
LUDWIG KOCH, Wandsbek, Hamburg, Germany.

Notice of Dissolution.
August 1st, 1893.
Notice is hereby given that the co-partnership heretofore existing between David Allan and David Fisher, doing business as florists and nurserymen, in that part of Woburn, County of Middlesex and Commonwealth of Massachusetts, called "Montvale," under the firm and style of "Fisher Brothers & Co." has been this day, by mutual consent, dissolved
Said business will be hereafter carried on by David Fisher alone, who assumes all liabilities of said firm and to whom all claims belonging to said firm should be paid. Signed DAVID ALLAN,
DAVID FISHER.

On Commission.
If you wish to purchase at the lowest rates, or to accept consignments for sale on commission, of Belgium articles, such as Azalea indica, Palms, Dracænas, etc., please write for list and conditions of sale. Address **M K L, care Am. Florist, Chicago.**

SURPLUS STOCK.
Per 100
Fine Smilax plants, pot grown..... $2.00
Plumbagos, bushy, 2 year plants, 5-inch pots, ... 6.00
Mermet and Bride Roses, extra strong, 2-inch pot plants 4.00
Cane Plant Stakes, $4.50 per 1000, sent freight prepaid within 350 miles.
Best quality Harrisii Lily Bulbs, 7 to 9, $5.50 per 100.
F. WALKER & CO.,
Louisville, Ky.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

COMPETITION DEFIED.

THRE. DELARUYE DE MULDER,
NURSERYMAN,
Ledeberg, nr. Ghent, Belgium,
Begs to offer all kinds of Palms, Azalea Indica and mollis, Araucaria excelsa and glauca, Aspidistra, green and variegated, all kinds of Dracænas, green, striped and variegated, Begonia and Gloxinia tubers, Rhododendrons, Ficus elastica, green and variegated, Bay Trees, Laurustinus, etc., etc., of all sizes, at the lowest and cheapest market prices, and of an irreproachable culture.

Terms—Cash with order for all unknown purchasers; all packing free for orders with cash exceeding $50.00.
☞Apply for general trade list.

SMILAX.

	Per 100	Per 1000
From 2½-inch pots	$3.00	$25.00
" 2-inch pots	2.50	20.00
" Thumbs	2.00	15.00

Also a limited quantity of PANDANUS UTILIS and LATANIA BORBONICA, strong plants, from 4-inch pots. Price on application.
NATHAN SMITH & SON,
167 W. Maumee St., Adrian, Mich.

Association "Flora"
BOSKOOP, HOLLAND
NURSERIES.
Roses, Clematis, Shrubs, Azaleas, Palms, Herbaceous Plants, Bulbs, Etc.
Catalogue on Application.
P. OUWERKERK,
206 Cambridge Ave., JERSEY CITY, N. J.

E. G. HILL & CO.,
Wholesale Florists
RICHMOND, INDIANA.

CHOICE SWEET PEAS
Being the largest growers of the above in the world the trade are invited to send a list of their requirements and secure low prices for Fall delivery.
SHERWOOD HALL NURSERY CO.
Menlo Park and San Francisco, Cal.

FERNS.
Nice, strong plants for ferneries, from 6 to 12 inches high.
DAVALLIA STRICTA,
PTERIS ARGYREA (VARIEGATA),
PTERIS SERRULATA CRISTATA,
POLYPODIUM AUREUM,
In mixture only, $6.00 per hundred.
S. J. REUTER, Westerly, R. I.

SMILAX
Extra Strong Plants, from 2¼-inch pots only.
$1.75 per 100. $16.00 per 1000.
Heite Floral Company
712 Linwood Ave., Kansas City, Mo

VICTOR SPRAY PUMP.
The most wonderful pump ever invented. Requires no foot-rest or support. Send for prices.
HENION & HUBBELL, 55 N. Clinton St., Chicago, Ill.

Philadelphia.

A meeting of the creditors of La Roche & Stahl was held Friday afternoon August 4, in the office at the greenhouses at Collingdale, Delaware county. Over seventy florists were present. C. D. Ball of Holmesburg was elected chairman and Robert Kift secretary. The meeting was called by Messrs. La Roche & Stahl to make a statement of their assets and liabilities to the creditors and present a plan for paying off their indebtedness.

Mr. La Roche stated that they had prepared a statement of their assets, but he could not just lay his hand on it at present, but he gave a verbal list which was copied down by the secretary, and was as follows:

Greenhouse property sixteen houses	$17,000
Real estate on which they stood	15,000
Office, potting shed, wagon shed windmill	5,325
Horses, wagons, carts, etc	2,000
Store fixtures and stock 13th and Chestnut	550
Book accounts	5,000
Merchandise and stock in greenhouses	15,000
Sash on place	225
Total assets, greenhouse and store	60,100
Mortgage on greenhouse property	11,000
	49,100
Other assets were equities in building lots and some mortgages	43,200
Total assets	92,300

The liabilities as per judgment confessed to the trustee, and on which execution was taken footed up to $71,328.65. Of this amount $22,000 in round numbers is due to one hundred and forty-five florists, while nine other creditors, prominent among whom are national banks who hold nearly fifty thousand dollars worth of the firm's paper, represent the balance.

The florists' claims run from a few dollars up to $1,600, this being the largest amount due any one creditor; there were quite a number of claims noticed above $300 in the list which Mr. La Roche read at the request of one of the creditors.

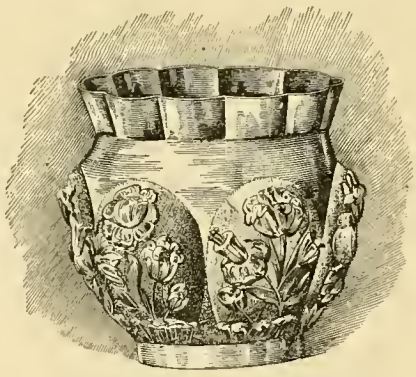
Mr. La Roche then presented the proposition or settlement which they desired to make with the florists. He said they must have time, that if the sheriff's sale under the execution was allowed to go on, probably not more than half the amount of the valuation of the assets would be realized, if that much. The proposition of the firm was that they pay five per cent. of each claim semi-annually from date of judgment, July 24, as well as interest at six per cent. until all indebtedness was paid, which practically meant an extension for ten years.

Immediately after the proposition J. B. Candy of Langhorne, Pa., moved that it be accepted provided the banks would agree; the motion being seconded, was put to the meeting and passed unanimously without any discussion whatever. A poll of those present was then taken and a committee appointed to confer with the banks at a meeting to be held August 7. H. F. Michell, Charles Meehan and John Smith comprised the committee, and were given power to act. After an adjournment to the greenhouses the meeting reconvened and some questions were asked Mr. La Roche, the principal one being by George Anderson, it was "Could the members of the firm pay off a dissenting creditor?" Mr. La Roche said that they had the right to pay any individual if in their judgement they could do so and still carry out their agreement with the other creditors. After partaking of a lunch the meeting adjourned and a rush was made for the train then due. The whole affair passed off as pleasantly as possible, and a prospective bowling match or last day of the convention could not have found the boys in better humor.

W. S. Delaney was taken suddenly ill on the street last Friday afternoon and almost immediately expired; heart failure was the cause of his death. The deceased for quite a long time had been solicitor for the Pennsylvania Horticultural Society, but about a month ago resigned on account of failing health. He also filled the position of ticket seller at the exhibitions, and Mr. Cartledge the treasurer says that it was a pleasure to audit his accounts, in which he had never found a single mistake.

There is nothing new in the way of business, the rule being that it is a long while between customers. K.

Please mention the AMERICAN FLORIST every time you write to an advertiser.



Silver Cup awarded us for Meteor Roses, exhibited at Madison Square Garden, 1892, for best 25 Red Roses of any variety.

Roses for Winter Flowering.

We still have fine stocks of the two leaders,

Meteor & Mme. Caroline Testout.

ALSO

American Beauty, Bridesmaid, Kaiserin Augusta Victoria, Perle, Mermet, Cusin, Niphetos, etc.

Write us for quotations stating quantities and kinds wanted.

Our large handsomely illustrated catalogue mailed free on application.

F. R. Pierson Company,
TARRYTOWN-ON-HUDSON, N. Y.

A NICE LOT OF YOUNG ROSES,
in 3 and 4-inch pots.

Mermets, Brides, La France, Gontiers, Niphetos, Wootton, Waban, Brunner, Etc., Etc.,
3-inch pots, $6.00 per 100.

SEND US A TRIAL ORDER.

La Roche & Stahl,
Chestnut and 13th Sts., PHILADELPHIA, PA.

10,000 Gen. Jacqueminots.
Pot Grown on their own Roots.

From 5-in. Pots, 16 in. to 18 in. high, $8.00 per 100
From 4 in. Pots, 12 in. to 15 in. high, $6.00 per 100
ENGLISH IVIES, Pot Grown, one year old, 3 to 5 feet high, $5.00 per 100.
Cash with orders. When ordering give directions how to ship.

JOHN RECK, Bridgeport, Connecticut.

SURPLUS ROSES.
150 Gontiers, 3½-in. $5 per 100; 200 Gontiers, 3-in. pots $4; 400 Brides, 400 Mermets, 3-in. $4 a 100. 200 Calla bulbs, 6 in. around $7 a 100. 200 Calla bulbs, 4 to 5 in. around, $5 a 100. Satisfaction guaranteed. Cash with order.
J. J. LAMPERT, King St., Xenia, O.

OUR
Sash Lifter AND Hinges
will do the work and cost you less than any other. Send your name and address and we will mail you description and price.
BAY STATE HARDWARE CO.
272 Freeport Street, BOSTON, MASS.

FIELD GROWN CARNATIONS.
Fine healthy plants for **Winter Bloom.**
W. R. SHELMIRE,
CHESTER CO., AVONDALE, PA.
Send for Circular.

CARNATIONS.
A SPECIALTY.
Full stock of all the new and leading varieties. Rooted Cuttings, Young Plants, and Field Grown Plants in season. Get our prices before purchasing.
GEO. HANCOCK,
GRAND HAVEN, MICH.

CARNATIONS
Rooted Cuttings all sold or planted out.
FIELD GROWN PLANTS IN SEASON.
Correspondence Solicited.
C. J. PENNOCK, The Pines,
Chester Co., KENNETT SQUARE, PA.

CARNATIONS
ALL
THE LEADING VARIETIES.
R. T. LOMBARD,
Wayland, Mass.

CARNATIONS
Field-grown; best varieties. Write for prices.

	Per 100
Smilax, from 2½-inch pots	$2.50
Chrysanthemums, 2½-inch pots	3.00
Violets, Marie Louise	4.00
Dbl. Alyssum, 2½-inch pots	2.00
" " Giant, 2½-inch pots	4.00

Rooted cuttings of foliage, flowering, and Ivy Geraniums, Pelargoniums and general greenhouse stock.
DENVER CITY NURSERIES,
P. O. Box 201. South Denver, Colo.

CARNATIONS,
Grace Wilder, Tidal Wave and Silver Spray, **BOUVARDIAS,** Pres. Cleveland, Pres. Garfield and Bridal Bouquet, single white. Also Kentias, Arecas, Latania Borbonica, etc. Ready Sept. 1st.
WM. A. BOCK, N Cambridge, Mass.

TRADE MARKS. COPYRIGHTS.
SOLICITOR OF U. S. AND FOREIGN PATENTS,
Atlantic Building, Washington, D. C.
(Send sketch or model for free examination as to patentability.)

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

BEAUTY

and **BRIDESMAID**, fine 3-inch now ready for planting, $8.00 per 100. Also **Perle, Meteor, Cusin, Wootton, Soupert, Hoste, Sunset, Mermet** and **Bride**, $6.00 per 100.

M. A. HUNT, Terre Haute, Ind.

ROSES

BRIDES, MERMETS, BON SILENE, NIPHETOS, CUSINS, WATTEVILLES AND JACQUEMINOTS.

25,000 fine plants in 3-inch pots, at a bargain. Will quote you prices on application. IF WANTED SPEAK QUICK.

ROSES

A. N. PIERSON, CROMWELL, CONN.

REDUCED PRICES!

for **Rose Plants,**

STOCK GUARANTEED TO PLEASE.

To move large stock of Perles have reduced prices as follows:

		2¼-inch,	3-inch
PERLES	Per 100	$4 00	$6.00
SUNSET	"	4 00	7.00
METEOR, extra fine	"	5 00	8 00
BRIDE & MERMETS, Good as most 3-inch,	"	4 00	7 00
ALBANY	"	4.00	7 00
LA FRANCE	"		7 00

Also nice lot Chrysanthemums, 4-inch $7.00 to $12.00 per 100.

BROWN & CANFIELD,

SPRINGFIELD, ILL.

ROSES.

Fine healthy stock. Per 100 P. 1000

Perles, Mermets, The Bride, Sunset, Papa Gontier, Niphetos, Bon silene, La France, Souv. d'un Ami, Duchess of Albany, Mad. Cusin, Mad. de Watteville, from 3-in. pots, $8.00 $75.00

SMILAX, from 2¼-inch pots..... 2.50 20.00

Lots of other Fine Stock.

Send for new list.

WOOD BROTHERS,
Fishkill, N. Y.

The Grand New Forcing Rose,

"American Belle."

Prices and full particulars on application.

John Burton, Chestnut Hill, Philadelphia

ROSES.

LA FRANCE, BRIDES, MERMETS,

Strong, 3-inch pots, at $7.00 per 100.

LA FRANCE and ALBANY, from 2-inch pots at $4.00 per 100.

The above is good, clean stock, ready for planting.

ROBERT F. TESSON,
West Forest Park, ST. LOUIS, MO.

ROSES.

3,000 fine plants in 3½-in. pots. Perle, Bride, Niphetos, La France, Albany, Mermets, Gontiers, etc. Will sell cheap. Write for prices to

MRS. GEO. R. FRAVELL,
MARION, IND.

ROSES.

150 AMERICAN BEAUTIES, fine stock, 4-inch, 12 cts.

Also LA FRANCE, 3-inch, 6 cts.

SOUV. DE WOOTTON, 6-inch, 10 cts.

GEORGIA GREENHOUSES, Atlanta, Ga.

SURPLUS STOCK OF ROSES.

STRONG, HEALTHY PLANTS.

300 Mermets, 4-in.....per 100, $7 00
300 Mermets, 3-in..... " 5 00
300 Brides, 3-in..... " 5 00

CRABB & HUNTER,
Grand Rapids, - - Michigan.

ROSES. ROSES.

STRONG FIELD GROWN PLANTS; VARIETIES SUITABLE FOR FLORISTS' USE. LARGELY

GEN. JACQUEMINOT, MRS. J. H. LAING, ULRICH BRUNNER, MAGNA CHARTA, Pr. CAMILLE DE ROHAN, PAUL NEYRON, MARSHALL P. WILDER, ANNA DE DIESBACH, ALFRED COLOMB, ETC., ETC.

A FULL ASSORTMENT OF MOSS AND HARDY CLIMBERS.

TREE ROSES.

A splendid stock, fine smooth bodies, strong two year heads.

Our usual complete assortment of Trees, Shrubs, Bulbs, Plants, Etc.

CORRESPONDENCE AND INSPECTION INVITED.

THE STORRS & HARRISON CO.,

PAINESVILLE, OHIO.

10,000 FIRST QUALITY FORCING ROSES

READY FOR IMMEDIATE PLANTING.

Fully equal to those sold last year, and perfectly healthy in every respect.

LA FRANCE, 3-inch pots, $9.00 per hundred; 4-inch pots, $12.00 per hundred.

MERMET, BON SILENE, MME. HOSTE,
PERLE DES JARDINS, SAFRANO, MME. CUSIN,
3-inch pots, $7.00 per 100; 4-inch pots, $10.00 per 100.

SMILAX. Strong plants, 2½-inch pots, $2.50 per hundred; $20.00 per thousand.

J. L. DILLON, Bloomsburg, Pa.

FORCING ROSES.

Good stock—3 AND 4-INCH POTS.

AMERICAN BEAUTY, BRIDE, MERMET, BRIDESMAID, METEOR, PERLE, SUNSET, GONTIER, LA FRANCE.

A. S. MacBEAN, Lakewood, New Jersey.

Forcing Roses.

FINE STOCK, IN 3-INCH POTS.

Perle, Mermet, Bride, Meteor and Bennett.

GEO. W. MILLER, Hinsdale, Ill.

SURPLUS STOCK OF ROSES.

I have the following varieties of rose plants that are in firstclass coudition, from 2½-in. pots, large and strong, that the room they take is more valuable than the plants. Will guarantee them No. 1 in every particular, and will sell for

$3.00 PER HUNDRED

250 ALBANYS, 2000 LA FRANCE,
200 HOSTE, 2000 BRIDES,
2000 MERMETS.

O. P. BASSETT,
HINSDALE, - - ILLINOIS.

ROSES.

TEAS.....$30.00 per 1000
HYBRIDS..... 40.00 per 1000

Healthy plants, in 2-inch pots.

Also healthy plants of the Newest Chrysanthemums, and general greenhouse stock.

Trade list on application.

Jacob Schulz,
LOUISVILLE, KY.

ROSES,

STRONG PLANTS,

WRITE FOR PRICES.

Kemble Floral Co.,
OSKALOOSA, IOWA.

Chicago.

The flower trade is very quiet now, and most of the retailers complain of general dullness. It is hard to quote prices with any exactness, since they fluctuate from day to day, but there is little change since last week. Some few excellent roses are to be seen but the prevailing quality is indifferent. Some good Beauties are seen, also Perles, but most roses are small, even where the color is fair. Carnations are the only flowers now scarce, and they are poor too. Asters are quite plentiful; the most salable colors are white and pink, the darker tints are not liked. Sweet peas are falling off, and many are evidently coming to the end of the crop. There is some sale for the white ones, which are used in funeral work during the scarcity of carnations. Gladiolus and auratum are both plentiful, but there is little longiflorum or valley. Dahlias continue to come in, and the bulk of the material is from outside.

At a meeting of the Executive Committee of the Horticultural Society held last Saturday afternoon a committee was appointed to arrange for a banquet to the distinguished visitors who will be in the city during the Horticultural Congress. The event will probably take place at one of the well known clubs of which President Chadwick is a member.

Visited Chicago: W. G. Berterman, Indianapolis, Ind.; Lendel V. Hallock, Queens, N. Y.; Wm. Plumb, West Atlanta, Ga.; E. Hippard, Youngstown, Ohio; L. W. Lozier, Des Moines, Iowa; Jas. Eadie and Miss J. Eadie, Cleveland, O.; A. H. Graham, Cleveland, O.; H. A. Hart, Cleveland, O.; Chas. Koeppen, Sedalia, Mo.; Mr. Knott, of Franklin Park Floral Co., Columbus, O.; Frank W. Sherman, Traverse City, Mich; Thos. Giberson, Cedar Rapids, Iowa; Willie Bruce, Hamilton, Ont.; I. N. Kramer, Marion, Iowa; Mrs. Paul Brooks, Lawrence, Kan.; Wm. Clark, Colorado Springs, Col.; Chas. Warncke and family, Detroit, Mich.; Mrs. W. Hughes and daughter, Hillsdale, Mich.; Fred Foster, Milwaukee, Wis.; Messrs. Hogg & Son, Detroit, Mich.; G. M. Bird, Sidney, O.; M. P. Dilger, Waukegan, Ill.; Chas. Rauss, Detroit, Mich.; A. F. Breitmeyer, Detroit, Mich.; J. M. Gasser, Cleveland, O.; J. G. Esler, Saddle River, N. J.

The Chicago party for the St. Louis convention numbered 35 including visitors from other points, among which were Geo. Nicholson, Curator of the Royal Botanic Gardens, Kew, England; Prof. Dr. L. Wittmack, Berlin, Germany, Rob't. Craig, Philadelphia; W. H. Elliott, Brighton, Mass.; D. B. Long, Buffalo; E. H. Krelage, Haarlem, Holland; J. G. Esler, Saddle River, N. J.; J. M. Gasser, Cleveland, O.; A. Wiegand, Indianapolis; A. R. Congdon, Oberlin, O.; E. Wachendorff, Atlanta, Ga.; Chas. Dannacher, wife and daughter, Davenport, Ia.; J. Deake and wife, Asheville, N. C.; A. J. Wagner. Fort Wayne, Ind. Uncle John Thorpe was in the party and with the assistance of Mr. Craig and the "only" Walter Kreitling, kept things from stagnating on the trip.

TO STOTT GARDEN IMP'T CO.,
136 Liberty Street, New York.

Dear Sirs:—We have beeu using your **Distributer** and **Killmright** for six months and consider it a good thing. It is the best thing ever got out. For roses it is particularly good. It cures a rose plant of black spot and mildew and keeps them in a healthy and growing condition. We never use tobacco smoke now. It will certainly ultimately kill the mealy bug. We will keep it right along and want nothing else.

Signed BOLANZ BROS., Akron, O.

See Special Offer Aug. 3 and 17.

PANSIES.

THE BEST ARE THE CHEAPEST.

SIZE is a strong point in Pansies; when you combine size, color, substance and form they are pretty near right. By careful hybridization and selection I have accomplished this, and the Pansies I send out this Fall will be an agreeable surprise, even to former customers. If you buy Pansies I would be pleased to correspond with you; they will be offered for sale from Aug. 20th to Dec. 1st, at 75c. per 100 or $5 per 1000. Terms cash with order or C. O. D. No seed for sale.

L. B. 496. **ALBERT M. HERR, LANCASTER, PA.**

ZIRNGIEBEL'S Giant Market and Giant Fancy PANSIES,

are without question the most popular strains in cultivation up to date.

New Seed ready now, in trade packages of either strain, at one dollar each.

PLANTS FOR SALE.

Denys Zirngiebel,
NEEDHAM, MASS.

PANSIES.

During the season we shall have plants of best German strain of Pansies, at lowest prices.

BRAUER & RICHTER,
McCONNELSVILLE, OHIO.

BEST GERMAN PANSIES.

From seed bench; the best in the market. 75 cents per $1.00; $5.00 per 1,000, either mixed or separate. Please give orders. Plants ready in September. NEW PANSY SEED now ready. Trade packages 50 cents and $1.00.

JOHN P. TONNER, Wholesale Grower,
45 LAKE ST., - CHICAGO.
In Chicago Cut Flower Exchange.

SMILAX AND ASPARAGUS

TRAINED ON GREEN

SILKALINE

Are in the best possible condition for the market. For particulars address

JOHN C. MEYER & CO.,
289 DEVONSHIRE ST., BOSTON, MASS.

HEADQUARTERS for WATER LILIES

SEEDS, TUBERS AND PLANTS, ready for shipment at all seasons and to all parts of the world. Don't fail to inspect our Columbian Exhibit at the World's Fair.

Illustrated Catalogue on application.

WM. TRICKER, DONGAN HILLS NEW YORK.

DO YOU KNOW . .

THAT YOU CAN GET

20 CANE STAKES FOR 1 CENT

A foot in length by simply using a sharp saw on a bundle of our best.

BRACKENRIDGE & CO.,
304 W. Madison St., BALTIMORE, MD.

ESTABLISHED IN 1849.

G. BENARD, ORLEANS, FRANCE.

ROSES and YOUNG PLANTS a specialty.
Large stock of fine transplanted Ampelopsis Veitchii, at reduced prices according to quantity.
Catalogue sent free to applicants.
Agents for the United States.

C. RAOUX, 296 Pearl St., New York, N. Y.
E. BENARD, P. O. Box 620, San Diego, Cal.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

THE ONLY

Pansies Worth Raising.

for a professional florist are those which bring the highest price in the market when brought into competition with others.

Ask the auctioneers in New York what they know about my stock, and if their answer is favorable to me, you know where to get seed or plants.

SEED OF THIS YEAR'S CROP, $1.00 per package of about 2000 grains; $3.00 per ounce.

PLANTS FROM SEED BED SEPT. 1: Ordinary size $5.00 per 1000; large size $10.00 per 1000.

Large orders, fair discount. Ordinary size by mail $1.00 per 100.

CASH WITH ORDER.

No trash shipped, and all plants well packed.

CHRISTIAN SOLTAU,
199 Grant Avenue.
JERSEY CITY, N. J.

The seed may also be obtained of
JAMES M. THORBURN & CO., 15 John St., N. Y.

PANSY SEED. PANSY

The Jennings strain of large flowering and Fancy Pansies, new crop now ready. 8 pounds of seed and over 500,000 plants were sold last season. This strain is popular, and why? Because Florists can depend on getting only First Class Stock. I shall sell no other. My aim is to supply the best Finest Mixed, all colors, trade pkt. 300 seeds 25c.; 1000 seeds 50c.; 2000 seeds $1.00; per ounce $6.00. Pure White (the finest) trade pkt 50c. and $1.00; Golden Yellow, dark eye, trade pkt. 50c. and $1.00. Send for price list for other varieties. Pansy Plants, ready September 1 to December 25, any size wanted, cold frame size 65c. per 100 by mail; $5.00 per 1000 by express; 5,000 $20. Large flowering plants $1.00 per 100; $8.00 per 1000. Cash with order.

ADDRESS **E. B. JENNINGS,**
WHOLESALE PANSY GROWER,
Lock box 254 SOUTHPORT, CONN.

ROEMER'S SUPERB PRIZE PANSIES

The finest strain of Pansies in the World.

Introducer and Grower of all the leading Novelties.

Catalogue free on application.

FRED. ROEMER, SEED GROWER,
QUEDLINBURG, GERMANY.

PANSIES! PANSIES!

Pansies grown from extra selected seed, flowers of immense size and fine color, are cheap at 65c. per 100 and $5 per 1,000 fine plants, for sale from Sept 1 to Dec 1.

Terms cash, money order office, Lancaster, Pa.

ELMER J. WEAVER, Ronks, Lanc. Co., Pa.
Mention American Florist.

PANSIES.

Fresh Seed of my carefully selected strain of Pansies. Trade pkt. (1000 seeds), 50c. Plants ready in September.

ADOLF STAHL, Johnstown, Pa.

EXTRA PANSY SEED.

Mammoth Sunbeam Strain.

A grand collection of giant flowering varieties, very large, of perfect form, and choice colors; carefully selected; receive high praise from my customers; better than ever; no finer strain offered anywhere. Every florist should sow of it. Trade pkt., 500 seeds, 25 cts.; 3 pkts. 60 cts.; 6 pkts. $1.00.

JOHN F. RUPP, Shiremanstown, Pa.

400 FINE STRINGS OF SMILAX.

almost given away to make room for other stock. Order soon and get a bargain. Write for prices.

MRS. GEO. R. FRAVELL, Marion, Ind.

Siebrecht & Wadley,

ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.

Palms,
ORCHIDS
Roses,
and New Plants.

FRESH DRACAENA CANES NOW READY.

ORCHIDS.

The Finest Stock in the World.

SANDER'S,
ST. ALBANS,
ENGLAND.

Thirty minutes from London.

Our Mr. A Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

Established and Imported

ORCHIDS.

Ig. FORSTERMAN,

Newtown, N. Y.

TO TAKE PLACE OF WIND MILLS

HOT AIR PUMPING ENGINES

A Windmill

Is unreliable because it depends upon the elements for its power; hydraulic rams also depend upon favorable conditions and waste as much water as they secure. Steam pumps require skill and hand pumps demand labor and time. The

DE LAMATER-RIDER CR DE LAMATER-ERICSSON

Hot-Air Pumping Engines

are especially designed for pumping water, and from shallow streams or any kind of well. They are simple, safe and reliable, require no steam and have no valves. They require very little heat to operate them, and can be arranged for any kind of fuel.

Send for illustrated catalogue to

THE DE LAMATER IRON WORKS,
87 South Fifth Av.,
NEW YORK, N. Y.

CUTS!



Wood Engraving,
Zinc Etching,
Half-Tone,
Wax Engraving, Photo-Engraving,
Designing.

MANZ & CO.,
183 Monroe Street, CHICAGO. ENGRAVERS.

Mention American Florist.

JULES DE COCK'S NURSERIES
GHENT, BELGIUM.

OFFER TO THE TRADE OF GOOD PLANTS.

10,000 Araucaria Excelsa; 100,000 Begonia Bulbs.
30,000 Azalea Indica; 20,000 Azalea Mollis.
100,000 Palms, different sorts, all sizes.
10,000 Laurel Bays, Standards and Pyramids.

THE F. T. McFADDEN COLLECTION

ORCHIDS

CYPRIPEDIUMS

Catalogues of this well known collection may be had on application to

W. A. McFADDEN, BOX 574, CINCINNATI, O.

TUBEROUS ROOTED BEGONIA PLANTS.

STRONG, YOUNG POT GROWN PLANTS.

Ready to bloom. Will make fine plants for fall sales. In 4 colors. Price, $12.00 per 100.

F. R. PIERSON COMPANY,
TARRYTOWN-ON-HUDSON, N. Y.

HOW TO GROW CUT FLOWERS.

A PRACTICAL TREATISE ON

THE CULTIVATION OF THE ROSE,

And Other Flowering Plants for Cut Flowers, sent to any address upon receipt of $2.00. M. A. HUNT, Terre Haute, Ind.

STANDARD FLOWER POTS.

OLD RELIABLE MAKE OF

ELVERSON, SHERWOOD & BARKER.

Write for Catalogue and Price List.

PITTSBURGH CLAY MFG. CO. New Brighton, Pa.

(ESTABLISHED 1850).

Edmund Van Goppenolle

NURSERYMAN,

MEIRELBEKE, NEAR GHENT, BELGIUM.

Great Culture of Aspidistra, Araucaria Excelsa. PER 100.
Azalea Indica (20,000 disposible), at $20, 25 and 30 PER 1000.
Begonia Tuberous, Best Sorts, 200,000 yearly, at $18
Dracæna, Ferns, Ficus Elastica, Gloxinia, - - $22
Hydrangea Paniculata, Laurus Nobilis (Sweet Bays),
Many thousand pairs from all sizes, in Crowns and Pyramids, Lilium, Palms, enormous choice in all kinds at reduced prices. Rhododendron Hybr, Spiræa Japonica.
Price list on application; also to my agents.

C. C. ABEL & CO.,
P. O. BOX 920, NEW YORK.
Mention American Florist.

C. STOLDT,

CYCLAMEN GROWER,

WANDSBEK-MARIENTHAL, near Hamburg, GERMANY,

Offers CYCLAMEN SEED, STOLDT'S HYBRIDS. First-class seed, are acknowledged to be unsurpassed by all authorities in Europe, at the following prices, including postage:

Bright dark red.....per 100 corns. 50 cts.
Rose of Marienthal..... " " 50 cts.
Katchen Stoldt, pure white " " 75 cts.
White, with carmine eye.. " " 35 cts.

CASH WITH ORDERS.

Swainsona galegifolia alba.

Nice young plants in 2¼ in. pots, $3.00 per dozen. STOCK LIMITED.

EDWIN LONSDALE,
WYNDMOOR, near Chestnut Hill, PHILADELPHIA
Money Order Office Station "G" Phila.

SMILAX.

A large stock of strong well grown plants from 2¼-inch pots, at $2.00 per 100; $18.00 per 1000.

PANSY PLANTS for fall. Choicest strains.

CYCLAMENS, both 1 and 2 year bulbs. Prices on application.

CLEMATIS, large flowering, for fall delivery. A very large stock and assortment. Write for prices I can suit you both on plants and prices.

F. A. BALLER, Bloomington, Ill.

Vaughan's Solid Steel Trowel.

THE BEST IN THE WORLD.



NEVER WEARS OUT.

Price, 50c.; by mail, 60c.

VAUGHAN'S SEED STORE,
NEW YORK, 26 Barclay Street. CHICAGO, P. O. Box 688.

Mention the American Florist when writing to advertisers on this page.

Foreign Notes.

Lilium crocea-elegans is a new hybrid, the result of a cross between L. croceum, a European variety, and the Japanese L. elegans (Thunbergianum,) originated by Mr. Sprenger of Naples. It is robust in growth, the stem reaching a height of two feet or over. The inflorescence consists of six or eight flowers in a loose corymb, the flowers bright scarlet, with many small black dots. It is very ornamental.

Adiantum venustum is a handsome cool-house fern, which should be useful for cutting, as the fronds are harder than most of the maidenhairs. The fronds are about a foot long, with finely toothed pinnules.

Epidendrum Wendlandianum is a new orchid from Mexico; the flowers are produced two or three on a stalk, the petals and sepals light green, the lip snowy white, with dark purple lines on the side lobes; the column is also purple. The diameter of the flower is nearly two inches. It blooms in midsummer, and thrives in a cool house.

Two new caladiums, recently introduced from Brazil are C. venosum and C. rubescens. C. venosum has petioles eight to ten inches long, light green, densely covered with dots and lines of black. The leaves are seven to ten inches long, three to four inches wide, dark green, the course of the nerves variegated with light yellowish green, the margin narrowly edged with red. C. rubescens has petioles five or six inches long, blackish, leaf five to six inches long and two inches broad, with wavy margins. Upper surface crimson, with green border. These caladiums, while quite distinct in character from any others in cultivation, are regarded as being nearly related to C. Schomburgkii.

EVANS' IMPROVED
CHALLENGE VENTILATING APPARATUS
Write for Illustrated Catalogue.
QUAKER CITY MACHINE WORKS, Richmond, Ind.

FLORISTS' HOSE,
Made by E. W. Holt, member of the Society of American Florists.
Goodyear Rubber Store,
2 W. 14TH ST. NEW YORK.

STANDARD FLOWER POTS.
Price List.

2 -inch,	Per 1000	$3.25	7-inch,	Per 100	$ 3.50
2½-inch,	"	3.50	8-inch,	"	5.00
2½-inch,	"	4.00	9-inch,	"	7.50
3 -inch,	"	5.00	10-inch,	"	10.00
3½-inch,	"	7.25	11-inch,	"	15.00
4 -inch,	"	9.00	12-inch,	"	20.00
5 -inch,	"	13.80	14-inch,	"	40.00
6 -inch,	"	22.00	16-inch,	"	75.00

Terms cash, f. o. b. Address
HILFINGER BROS. POTTERY, Fort Edward, N. Y.

IMPROVED GLAZING.
Zinc Joints for butting glass without laps. No leakage. No sliding of glass. Practically air tight. Keeps out cold winds, thereby saving fuel. No laps, saves enough glass to pay for the zincs. No breakage of glass on account of frost or ice. Some of the largest growers in the country are using "Gasser's Patent Zinc Joints" with entire satisfaction.
Write for sample and price list.
J. M. GASSER, FLORIST,
101 Euclid Ave., CLEVELAND, O.

D. H. ROBERTS,
159 & 161 South Fifth Ave., New York.
NATURAL GAS MADE GLASS,
for Rose Houses, Conservatories, etc., etc.
Look at our World's Fair Exhibit in Horticultural Building.

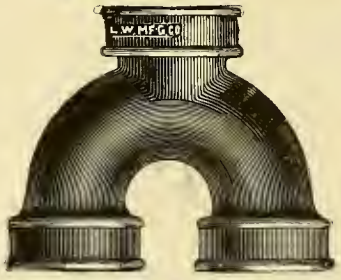


Mention American Florist.

THE "LOCKLAND"
Sash Bars
ARE ALWAYS SATISFACTORY.
This cut represents our improved Clipper Bar for Butted Glass roof—putty to be used under glass only.
GUTTER MATERIAL, RIDGES, SASH, ETC.
The finest CLEAR CYPRESS used.
Write for circulars and estimates. . . .
LOCKLAND LUMBER CO.
. Lockland, O.

Greenhouse Pipe and Fittings





Large quantities of our Pipe are in use in Green houses throughout the West, to any of which we refer as to its excellent quality.
Pipe can be easily put together by any one, very little instruction being needed.
GET THE BEST!
Hot-Water Heating, in its Economy and Superiority, will repay in a few seasons its cost.
Mention American Florist.
L. WOLFF MFG. CO., 93 to 117 W. Lake Street, CHICAGO.
WRITE FOR ILLUSTRATED CIRCULAR.

"Standard" Flower Pots.
As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address
The Whilldin Pottery Company,
BRANCH WAREHOUSES: 713, 715, 717 & 719 Wharton St., Philadelphia, Pa.
Randolph Ave. and Union St., Jersey City, N. J.
Jackson Ave. and Pearson St., Long Island City, L. I.

STANDARD FLOWER POTS.
Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.
A. H. HEWS & CO., N. Cambridge, Mass.

Standard Flower Pots.
We wish to notify the trade that this summer we have made great improvements in machinery and have also discovered a better clay, so that we are now manufacturing FLOWER POTS that can't be beat. We have the assurance of a host of our customers, that our make are the best in the market. Bear in mind that freight rates are very low from this point, and we claim that our way of packing saves you freight charges. Send for circulars, or we will send you figures on any quantity you want.
SIPFLE, DOPFFEL & CO., SYRACUSE, N. Y.

Always mention the AMERCAN FLORIST when writing to advertisers.

WHEN writing our advertisers please use one of your printed business letter heads or enclose your business card.

The FAIRBANKS

GALVANIZED

STEEL Wind MILLS AND TOWERS



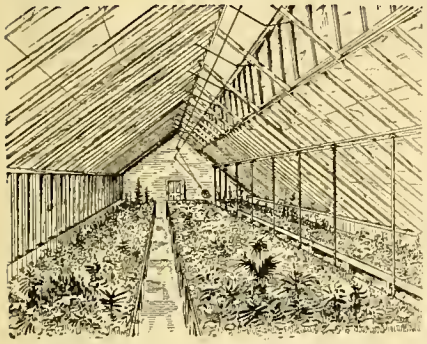
Are WARRANTED to be as well made, of as good material, and to produce more power than any other steel mill made.

THE ECLIPSE WIND MILL
the Original Self-regulating Wood Wheel.

Pumps, Tanks, &c. Send for Catalogue and Prices.

Fairbanks, Morse & Co., Chicago, Ill.

THE CHAMPION



Automatic Ventilator.

The cheapest, easiest to operate, and by far the best machine in the market. Don't buy a Ventilator until you have seen my illustrated descriptive circular, which will be sent you free, giving prices, etc. Also **Champion Soil Pulverizer and Sifter.**

Address, **E. E. WOLF,**
Box 114. SPRINGFIELD, O.

HERE WE ARE AGAIN.



Send on your orders for Sash Bars and Ventilating Sash. All kinds on hand.

PROMPT ATTENTION.

Itemized Estimates given, and cost of freight guaranteed.

CORRESPONDENCE SOLICITED.

Clear Cypress,

from bottom gutter up is my specialty.

Lyman Felheim,
ERIE, PA.

THE PERFECT DRAINAGE

BENCH TILE

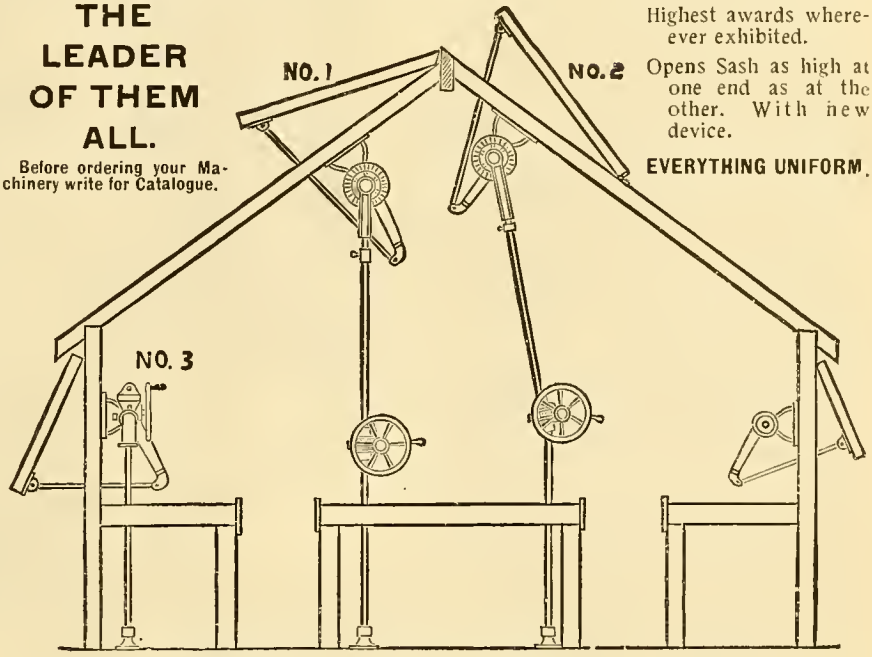
For circulars, etc., address

W. P. Wight, Upland Green Houses,
Send your business card. MADISON, N. J.

STANDARD VENTILATING MACHINERY,

THE LEADER OF THEM ALL.

Before ordering your Machinery write for Catalogue.

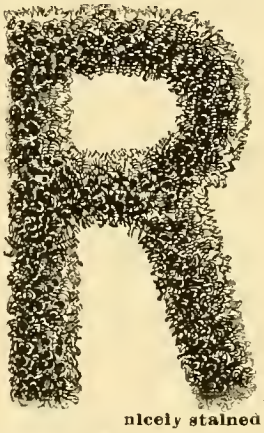


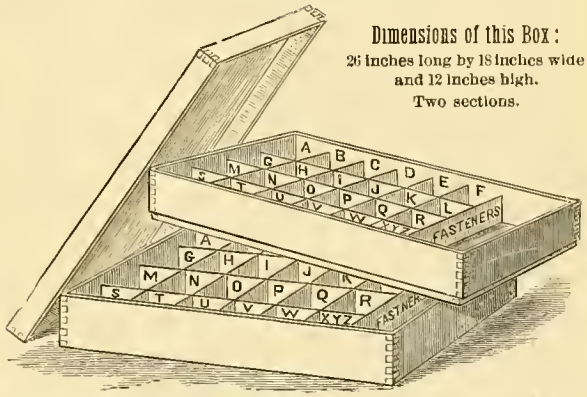
Highest awards wherever exhibited.

Opens Sash as high at one end as at the other. With new device.

EVERYTHING UNIFORM.

E. HIPPARD, YOUNGSTOWN, OHIO.





Dimensions of this Box:
26 inches long by 18 inches wide and 12 inches high.
Two sections.

With an order for 500 letters, we furnish a box made of wood, nicely stained and varnished, such as is represented in the cut.

BOSTON FLORIST LETTER CO.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1½-in and 2-in. 2.00 per 100. Patent fastener with each letter.

OUR NEW SCRIPT LETTER, $4.00 per 100.

N. F. McCARTHY, Treas. & Mangr. | Address 13 Green St., **Boston, Mass.**

Address all correspondence to 1 Music Hall Place.

We have a new **FASTENER** which we consider a decided success. Any customers having old style fasteners which they wish to exchange, can do so without additional cost by writing us.

AGENTS:

Marschnetz & Co., 25 N. 4th St., Phila.,
A. Rolker & Sons, New York.
F. E. McAllister, 22 Dey St., New York.
A. D. Perry & Co., 33 Warren St, Syracuse, New York.
Ernst Kaufmann & Co., 113 N. 4th St., Phila.
H. Bayersdorfer & Co., Philadelphia, Pa.
A. C. Kendal, 115 Ontario St., Cleveland, O.
J. A. Simmers, Toronto, Ont. Agent for Canada.
E. H. Hunt, 79 Lake St., Chicago, Ill.
Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.
H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.
T. W. Wood & Sons, 6th and Marshall Sts., Richmond, Va.
Jas. Vick's Sons, Rochester, N. Y.
C. A. Kuehn, 1122 Pine St., St. Louis, Mo.
D. B. Long, Buffalo, New York.
C. F. Huotington & Co, Indianapolis, Ind.

These Letters are handled by all the Wholesalers in Boston.

J. N. STRUCK & BRO.

Manufacturers of

• CYPRESS •

Greenhouse Material,

LOUISVILLE, KY.

Mention American Florist.

STANDARD HOSE MENDER.



The only Mender using ordinary galvanized wire No. 14, instead of expensive bands. Any person can handle it with perfect ease. Thousands in use and all testify to its Wonderful Merits.

Sample Box, by Mail, 50 cts.

E. HIPPARD, Youngstown, Ohio.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

Baltimore.

The weather is too warm for exertion, and yet the scribe has just exerted himself, and consequently has to still further exert himself to keep cool; i.e., to prevent his temper from rising and all on account of a piece of advice he took, or tried to take. The advice was about as follows: "When you tie up your new beds of smilax and asparagus, don't use the common white string. Use shoemaker's dark green thread; it is strong and invisible. You can buy it at any shoemakers supply store." What could be more to the point, better expressed or more timely and practical? At least so he thought, and as he had both old and new beds requiring string, he blithely ordered his driver to purchase a lot, and pictured himself draping chandeliers, mirrors, etc., with no vexatious delays incident to removing thick, and possibly knotted string. Alas! the driver reported that he couldn't get it. Then despite the heat, the "boss" himself started out on a quest for dark green shoemaker's thread, which speedily came down to a quest for grass green, apple, pea, Nile or any other green, and not only run through shoemakers supply stores but harness and notion stores as well, with the result that this evening he is willing to bet that such a thing as green shoemaker's thread is not to be had in all this great city, and he has very serious doubts—but, there, it is too warm to carry the theme any further; suffice it to say it will be a cold day when he goes hunting green shoemaker's thread again.

Flowers continue to sell in a deliberate, and leisurely sort of a way. No doubt much that is purchased by the retail stores goes to waste, but appearances must be kept up, or nothing will be done at all, and the stores that keep up the best appearance seem to do the best these dull times. Whether the show is the cause or effect of the sales who can say?

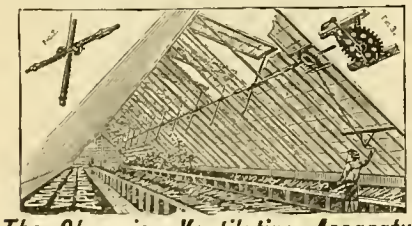
Prices remain about as before, with choice white and yellow buds in good demand; in fact good white flowers of all kinds are pretty sure sale.

Mrs. Mary Johnson, nee Patterson, has just returned from a trip to Atlantic City.

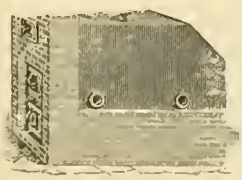
The members of the club who are going to the convention will go via Philadelphia, as the rates seem more favorable, and the genial company which they will have from there on will enliven the journey.

MACK.

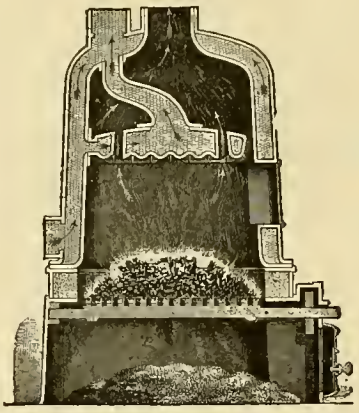
SUCCESSFUL GROWERS
USE THE BEST VENTILATING APPLIANCES.



The Champion Ventilating Apparatus
cannot be equaled in point of
CHEAPNESS, DURABILITY OR EFFICIENCY.
☞Circular is yours for the asking. Address
AMERICAN ROAD MACHINE CO.,
. . . . Kennett Square, Pa.
Mention American Florist.

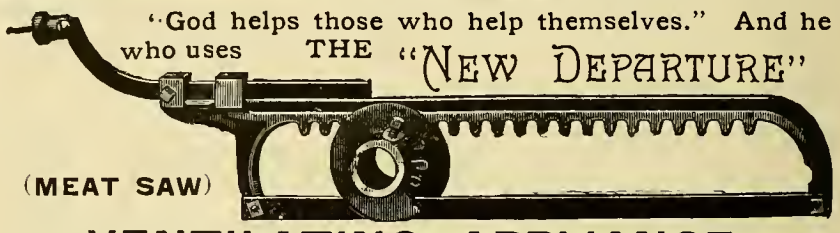


GREEN-HOUSE HEATING,
MYERS & CO.
1518 & 1520 S. 9th St.,
PHILADELPHIA.
Send for catalogue and price list.



JOHN A. SCOLLAY,
74 & 76 MYRTLE AVE.,
BROOKLYN, N. Y.
GREENHOUSE HEATING
— AND —
Ventilating Apparatus.
Patentee and Manufacturer of
HOT WATER BOILERS,
GREENHOUSE PIPE,
PIPE FITTINGS,
VALVES, TANKS, ETC.
☞ Estimates of cost given, and Illustrated Catalogue furnished on application.

"God helps those who help themselves." And he who uses THE "NEW DEPARTURE"



(MEAT SAW)

VENTILATING APPLIANCE
helps himself and those who help him in his labors, and is therefore doubly blessed. Send for price and description.
J. D. CARMODY, Evansville, Ind.
Or call and see the man and machine at his greenhouse office, located on the lawn west front of Horticultural Building, World's Fair grounds, Chicago, Ill.

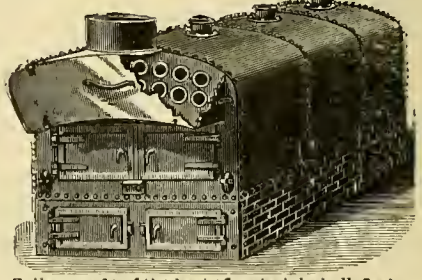
H. M. HOOKER COMPANY,
57 and 59 W. Randolph Street, CHICAGO,
NATURAL GAS MADE GLASS
FOR GREENHOUSES.
Write for latest prices.

FRENCH GLASS For CONSERVATORIES, ROSE HOUSES, Etc. Etc.
VANHORNE, GRIFFEN & CO.,
Importers of PLATE and WINDOW GLASS. Manufacturers of BENT GLASS and FRENCH MIRRORS.
131-133-135-137 FRANKLIN STREET, NEW YORK.
Note—Imported Glass is used in the best grade of Greenhouse building.

GLASS
which is absolutely perfect for modern greenhouse construction.
ROCK BOTTOM PRICES.
Send for Estimate. Satisfaction Guaranteed
REED GLASS CO.
65 WARREN STREET and
46, 48, & 50 COLLEGE PLACE,
—NEW YORK CITY.—

THE GREAT **ANTIPEST.**
For particulars, see next week.
R. W. CARMAN, GEN'L AGT.,
291 Amity Street, FLUSHING, Queens Co., N. Y.

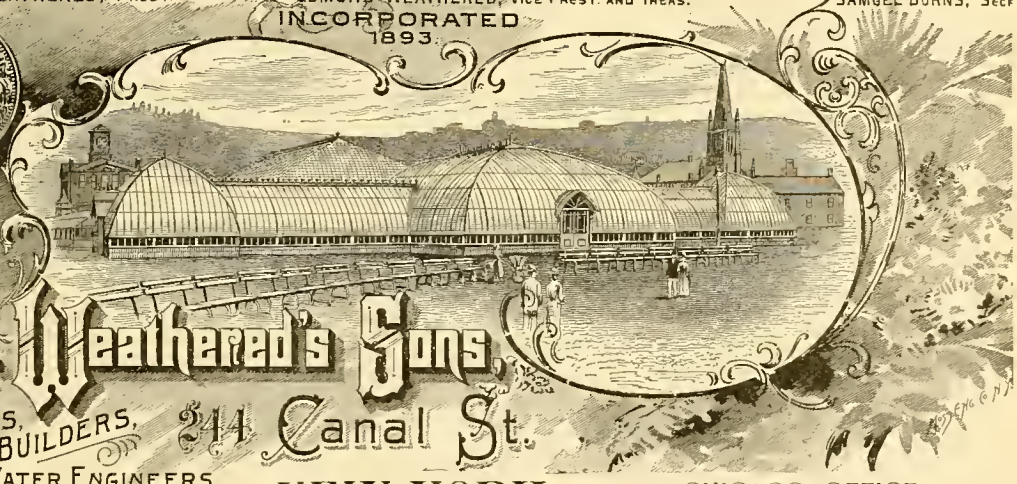
KROESCHELL BROS.
IMPROVED
Greenhouse Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around front, sides and back). Write for information.

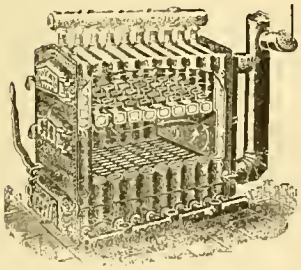
CHAS. B WEATHERED, Pres't. EDMUND WEATHERED, Vice Pres't. and Treas. SAMUEL BURNS, Sec'y
INCORPORATED 1893





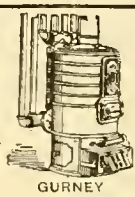
Thos. W. Weathered's Sons,
HORTICULTURAL ARCHITECTS, & BUILDERS, AND HOT WATER ENGINEERS.
FACTORY, 196 to 240 Orient Ave. Jersey City, N.J.
244 Canal St. NEW YORK.
CHICAGO OFFICE: 619-620 Manhattan Bldg.

ROYAL HEATERS
TRADE MARK
UTICA, N.Y.



HART & CROUSE,
UTICA, N. Y.

Gurney
HOT WATER HEATERS AND RADIATORS FOR HEATING Dwellings, Public Buildings, Etc. BY HOT WATER CIRCULATION.


GURNEY

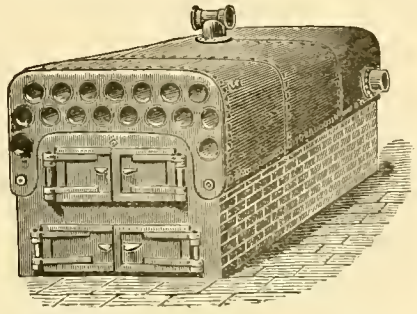
The marked superiority of the Gurney Heaters which is manifested in all severe trials, is now a matter of history. There is no question about their being the best. For reasons, see our book "*How Best to Heat Our Homes.*" It is free.

Gurney Hot Water Heater Co.
HEAD OFFICE: 163 Franklin St., Boston, Mass.
BRANCH OFFICE: 59 Wabash Ave., Chicago, Ill.
SELLING AGENCIES: Johnson & Co., 71 John St., New York. J. C. F. Trachsel, 246 Arch St., Philadelphia.


DOUBLE CROWN.

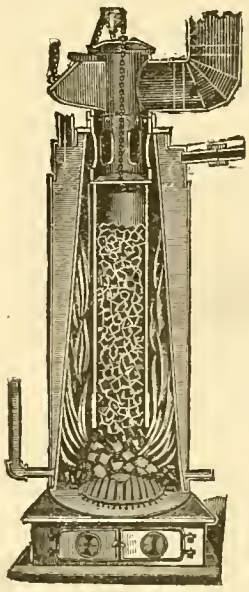
ESTABLISHED 1866.
FLORISTS WIRE DESIGNS
MANUFACTURED BY
N. STEFFENS
335 EAST 21ST ST. NEW YORK.

ESTABLISHED 1854.
DEVINE'S BOILER WORKS.
THE FLAT TOP TYPE
Wrought Iron Hot Water Boilers



Capacity from 350 to 10,000 feet of four-inch pipe.
SEND FOR NEW LIST.

FRANK DAN BLISH, Att'y,
OFFICE, 189 STATE STREET.
WORKS, 56th & WALLACE STREETS.
CHICAGO.
Mention American Florist.



THE WILKS HEATER,
FOR HEATING
GREENHOUSES, STORES, DWELLINGS, ETC.
Manufactured by THE S. WILKS MF'G CO. 123 S. Clinton St., CHICAGO, ILL.
SEND FOR CATALOGUE.

HAIL LOCK THE DOOR BEFORE THE HORSE IS STOLEN. DO IT NOW.
JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

FLORAL DESIGNS
The Cut Flower Worker's Friend. Fine book of 160 pages. Send $3.50 for it, to
J. HORACE McFARLAND, Harrisburg, Pa.

Mention the American Florist when writing to advertisers on this page.

Index to Advertisers.

Abel C C & Co.....23
Adv. Rates, etc 16
American Boiler Co ..28
American Road Mach Co.....26
Baller F A.....23
Barnard W W & Co.....18
Bueset O P.....21
Bay State Hdw Co.....20
Bayersdorfer H & Co ...19
Benard G 22
Berger H H & Co.....18
Bock Wm A.....20
Bonsall Jos E & Son 17
Boston Letter Co 25
Breckenridge & Co.....22
Brauer & Richter.....22
Brown & Canfield.....21
Burns & Raynor.....17
Burrow J G.....16 18
Burton John.....21
Carman R W.....26
Carmody J D.....26
Chandlee Geo F 20
Corbrey T J.....17
Cox Seed & Plant Co....18
Crabb & Hunter.....21
De Cock Jules.....23
De Lamater Iron Wks..23
De Mulder Th D.....19
Denver City Nurseries..20
Devine's Boiler Wks....27
Dillon J L.....21
Dreer H A.....19
Elliott W H.....16
Elllison Wm.....17
Fairbunks, Morse & Co.25
Felheim Lyman.....25
Fisher David.....19
Forstermann L 23
Fravell Mrs Geo R...21 22
Gasser J M 24
Georgia Greenhouses...21
Gonzalez & Co.....18
Goodyear Rubber Store 24
Guelf's Seed Store.....19
Gurney Heater Co.....27
Hall Ass'n.....27
Hammond Benj.....19
Hancock Geo 20
Hart James.....17
Hart Michael A.....17
Hart & Crouse.....27
Hartford H B.....16
Helte Floral Co.....19
Henion & Hubbell.....19
Herendeen Mfg Co.....28
Herr Albert M.....22
Hews A H & Co.....24
Hilfinger Bros.....24
Hill E G & Co.....19
Hinman Geo.....21
Hippard E.....25
Hitchings & Co 28
Hooker H M Co.....26
Horan Edw C.....17
Hulsebosch Bros.....18
Hunt E H.....17
Hunt M A.....21 23
Hunter & Purdy.....17
Jennings E B.....22
Kaufmann Ernst & Co..19
Kemble Floral Co 21
Kennicott Bros.....17
Knapp O R.....18
Koch Ludwig.....19
Koffman E 16
Kroeschell Bros 26
Kuehn C A.....17
Kuyk K J 19
Lumpert J J.....20
La Roche & Stabl....16 20
Lebnig & Winnefeld....19
Lewis R J 15
Lockland Lumber Co....24
Lombard R T 20
Long Dan'l B.....17
Lonsdale Edwin.....16 23
Lord & Burnham Co....28
McCarthy N F & Co.....17
McFadden W A.....23
McFarland J H.....27
McFarland J H Co.....16
MacBean A S.....21
Manz J & Co.....23
Marschuetz & Co.....19
Martens I.....18
Meyer John C & Co. ...22
Michel Plant & Bulb Co 18
Millang Bros 17
Miller Geo W.....21
Moffatt G J.....18
Moninger Jno C 28
Myers & Co.....26
Niles Centre Floral Co..17
Oil City Greenhouses....15
Olson M 17
Ouwerkerk P.....19
Peck & Sutherland.....17
Pennock C J.....20
Pennock Sam'l S 16
Pierson A N.....21
Pierson F R Co....16 20 23
Pittsburg Clay Mfg Co..23
Prince A G & Co.....17
Quaker City Mach Co...24
Randall A L.....17
Raoux C.....22
Reck John 20
Reed Glass Co.....26
Reuter S J 19
Roberts J H.....24
Roehrs T. eo.....17
Roemer Fred.....22
Rolker A & Sons.....19
Rupp John F.....22
Russell S J.....19
Sander & Co. 15 23
Schulz Jacob.....21
Scollay John A. 26
Shelmire W R.....20
Sheridan W F.....17
Sherwood Hall Nur Co..19
Siebrecht & Wadley.....23
Sipfle, Dopffel & Co.....24
Situations. wants.....15
Smith Nathan & Son....19
Soltau Chr.....22
Stahl Adolph.....22
Steffens N.....27
Stoldt C.....23
Storrs & Harrison Co....21
Stott Garden Imp Co....22
Struck J N & Bro.....25
Sunderbruch H L.....17
Tesson R F.....21
Tonner John P.....22
Tricker Wm.....22
Van Coppenolle Ed....23
Van Horne Griffen & Co 26
Vaughan J C.....18 23
Walker F & Co.....19
Weathered's Sons T W..27
Weaver Elmer J.....22
Weeber & Don.....15
Welch Bros.....17
Whilldin Pot Co 24
Wight W P.....25
Wilks S Mfg Co.....27
Winter N D.....15
Wisconsin Flower Ex...18
Wolf E E 25
Wolff L Mfg Co.....24
Wood Bros.....21
Young Bros.....16
Zirnglebel D.....22

PLEASE WRITE on your printed letter head when addressing our advertisers. If you have no printed letter head, then enclose your business card or bill head.

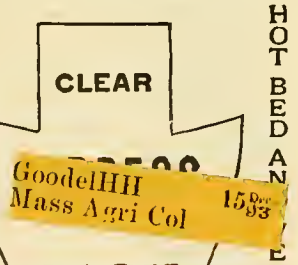
CYPRESS GREEN HOUSE MATERIAL

CLEAR

SASH

BARS

HOT BED AND VENTILATING SASH

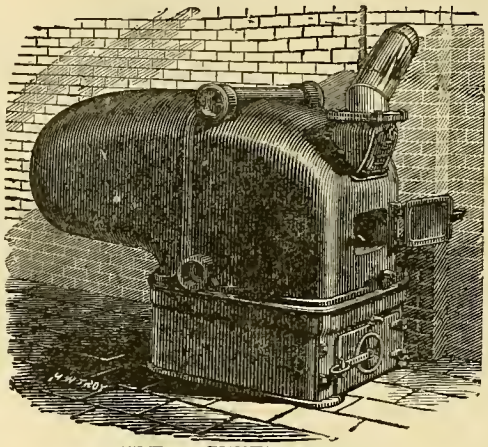


JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

Mention American Florist.

GREENHOUSE HEATING AND VENTILATING

Horticultural Architecture and Building.



HITCHINGS & CO.

Established 1844.

233 Mercer St., New York.

FIVE PATTERNS OF BOILERS.

NINETEEN SIZES.

Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc., of Iron Frame Construction, Erected complete, or the Structural Iron Work shipped ready for erection.

Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Top.

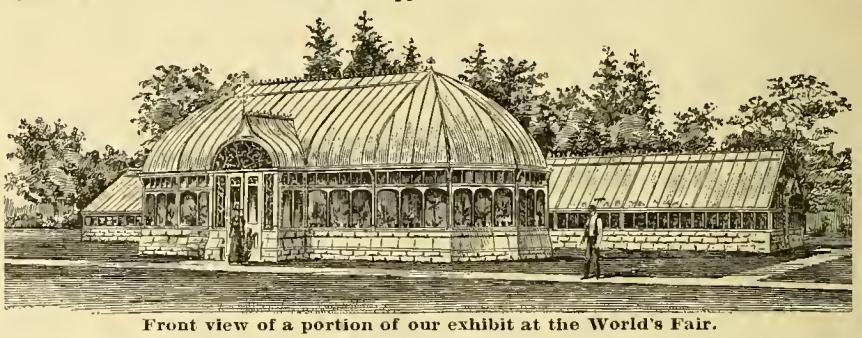
SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.

LORD & BURNHAM CO.

Horticultural Architects and Builders,

STEAM AND HOT WATER HEATING ENGINEERS.

☞ Plans and estimates furnished on application.



Front view of a portion of our exhibit at the World's Fair.

. . . SEND FOUR CENTS POSTAGE FOR ILLUSTRATED CATALOGUE. . . .

LORD & BURNHAM CO., Irvington-on-Hudson, N. Y.

STEAM · AND · HOT · WATER · HEATERS

FOR

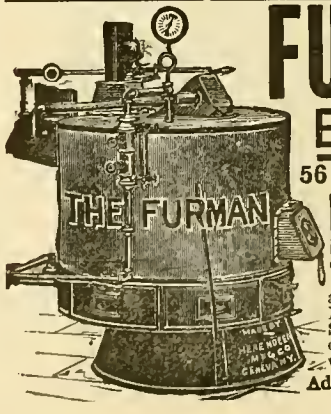
GREENHOUSE HEATING

156

DIFFERENT SIZES.

American Boiler Company.

BOSTON,	NEW YORK,	CHICAGO,	DENVER,	SAN FRANCISCO.
195 Fl. Hill Square.	94 Center St.	34-36 Dearborn St.	Mining Exchange Bldg.	80 Crocker Bldg.



FURMAN BOILERS

Economical — Substantial — Safe.

56 STYLES AND SIZES—BURNS HARD OR SOFT COAL.

Modern Hot-Water Heating

These Boilers have a high reputation for Staunchness, Durability and Safety, and are **GREAT COAL SAVERS.** Minimum Friction and Maximum Velocity only obtained by **VERTICAL WATER CIRCULATION.** Send for new 150-page book giving full particulars and a great deal of valuable information on modern Heating and Ventilation, with plans and tables for correct hot-water work. Mailed free.

Address **HERENDEEN MFG. CO.,** 26 Vine Street, **GENEVA, N. Y.**

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. IX **CHICAGO AND NEW YORK, AUGUST 17, 1893.** **No. 272**

THE AMERICAN FLORIST

Copyright 1893, by American Florist Company.
Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.
322 Dearborn Street, Chicago.

Subscription, $1.00 a year. To Europe, $2.00.

Address all communications to

AMERICAN FLORIST COMPANY,
P. O. Drawer 164, CHICAGO.
Eastern Office: 67 Bromfield St., Boston.

SOCIETY OF AMERICAN FLORISTS.

WM. R. SMITH, Washington, D. C., president; PROF. WM. TRELEASE, St. Louis, Mo., vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer.

CONTENTS

Convention notes 29
Co-operation between grower and retailer . . . 30
Group photo of S. A. F. at St. Louis (illus) . . . 31
Horticultural exhibitions 31
How to increase the love of flowers 32, 33
The dark side 34
Exhibitors at St. Louis and awards 34
The bowling contest 34
The St. Louis bowling cup (illus) 35
The World's Fair 35
The horticultural congress 36
The future of floriculture 36
Miscellaneous seasonable hints 37
Carnations—Seasonable hints 38
The seed trade convention 38
Pedigree or grade races in horticulture 38
W. Atlee Burpee (portrait) 39
Japanese floral arrangements (illus) 41
Philadelphia 41
Eryngium amethystiuum 42
Injury to plants by trespassing dog 44
Denver 46
St. Louis 48
Chicago 50
Toronto 52
Baltimore 54

S. A. F. Officers Elected.

Officers for 1894 were elected as follows: President, J. T. Anthony, Chicago; Vice-President, Robert Kift, Philadelphia; Secretary, Wm. J. Stewart, Boston; Treasurer, M. A. Hunt, Terre Haute, Ind. Atlantic City, N. J., was selected as the place for holding the next convention.

THE FIRST VOLUME of the FLORIST contained 438 pages; the last volume contained about 1,400 pages, a gain of nearly 1,000 pages. Do you know of any book containing 1,400 pages that you can buy for $1.00?

WE SHALL PRINT in next issue Mr. Craig's essay on the past and present of floriculture, in addition to other essays read at the horticultural congress. We shall also give a full report of the reception and banquet tendered to distinguished visitors by the Horticultural Society of Chicago, at the Union League Club, August 18.

Convention Notes.

The number attending the convention at St. Louis was the smallest for several years. The evening sessions were rather slimly attended and the small number of ladies present was frequently commented upon. But, on the whole, the meeting was a successful one, and the report, when completed, will read well. The new arrangement of the program to accommodate the auxiliary societies and give them an opportunity to present their plans before the larger society was not much of a success, and with the exception of the two splendid essays delivered on behalf of the Carnation and Chrysanthemum Societies little work was done by any of these organizations.

The election of president was the occasion of quite a discussion, which resulted in the postponement of the final election until Friday evening, when J. T. Anthony was elected president and M. A. Hunt treasurer, Robt. Kift having been elected vice-president and Wm. J. Stewart secretary at the morning session.

An invitation having been extended to the visitors to visit the establishment of the Anheuser-Busch Brewing Association a large number availed themselves of the privilege on Friday afternoon, and while there were lavishly entertained.

The Question Box was an interesting feature of the meeting on Friday evening. To the question, "In heating with hot water under pressure, what size of pipes and how many are required to heat a house 20x200 to 60° when outside temperature goes as low as 28° below zero?" Ernst Asmus replied as follows:

"The question is rather indefinite, as it does not state what kind of a house, whether a lean-to, even-span, or three-quarter span, or whether it has glass on sides and ends, nor does it say how much pressure is wanted, all of which makes a material difference when figuring to pipe a house satisfactorily. Taking for granted that the questioner meant a three-quarter span house with glass on roof, front and one end, I would use twelve rows of two-inch pipe under a pressure of fifteen pounds, and I will guarantee to keep 60° or more with a *suitable boiler* and a good fire of good Lehigh coal, if the outside temperature goes as low as 30° below zero. I have houses of the above description of nineteen feet width, in which I use only nine rows of pipe, and I have never seen the time when I could not keep it up to 60° under the coldest weather in this latitude, which was 14° below zero last winter."

After the reading and acceptance of the report of the committee on nomenclature, the following resolution was unanimously adopted:

Resolved, In view of the recommendations of the Nomenclature Committee, that a committee of three be appointed by the chair, the secretaries of the Chrysanthemum, Carnation and Rose Societies also to act as members, to prepare a list of decorative plants handled by the American trade, for consideration and adoption as the official list of this Society; said committee to act under the following general instructions:

1. Natural species and varieties shall bear the Latin names assigned to them in Nicholson's Dictionary, so far as they are named, except that where differences exist between the Dictionary and the Kew Index, now in course of publication, the name adopted by the latter shall be chosen. Species first published or reinstated subsequent to the date of the latter (1885) shall be treated in accordance with botanical custom, especially that of the Kew Gardens. In all cases in which the application of this rule shall cause the displacement of a commonly used and well known name, the latter shall be added as a synonym.

2. Florists' varieties, races and forms shall be named in accordance with the recommendations of the Nomenclature Committee this day submitted; but the greatest conservatism is counseled in all changes which are likely to cause confusion or detriment to legitimate business interests.

A very pleasant feature of Friday evening's session was the presentation of a handsome water pitcher, tray and goblets to ex-President Jordan, and a gold watch and chain to President Smith, speeches appropriate to the occasion being made in the first case by Robert Kift, and in the latter by E. H. Michel; both the recipients being taken completely by surprise. Mr. Jordan replied in a few words expressing his deep appreciation of the kindly feelings manifested toward him, which he claimed he had done nothing to merit, and thanked the donors over and over again.

President Smith responded in tones tremulous with emotion. He said: "Mr. Michel, ladies and gentleman, the trying position in which you have placed me almost prevents me from saying anything. Did I utter the feelings of my heart you would be agitated as much as I am, but I have not the voice to do so. There is nothing that I will cherish through life like the present you have given me. There are no words at my command to express to you the depth and sincerity of the grateful feelings which overwhelm me at this moment. I can only thank you from the bottom of my heart and assure you that I will treasure this occasion as a lasting and delightful memory forever. Permit me to say that one of the grandest and best agencies for elevating our profession is the one to which I am indebted for whatever distinction has been accorded me in my profession. I allude to the educational establishment of which our distinguished guest, Mr. Nicholson, the Curator of the Royal Botanical Gardens, Kew, is the representative. It would have pleased me much if that gentlemen could have been present this evening to see how the young men of America have honored one whose early training was received in that establishment. I wish to say further that it has been to me a gratification and delight to meet you all here, and my visit to St. Louis will be remembered among my red-letter days on earth. I have seen on all sides the genial faces and

the outstretched hands of kind friends; and in our mutual enjoyment and delight we have had a foretaste of that higher sphere of happiness which we all expect to reach in the great hereafter."

On Saturday afternoon about one hundred of the members visited the country residence of Mr. D. S. Brown by special train which Mr. Brown had kindly provided, and spent a very pleasant hour inspecting the grand collection of decorative plants, orchids, etc., to be seen there. On Saturday evening the final attraction of the convention, the illumination of the streets of St. Louis, by the Autumnal Festivities Association. This feature was a great surprise, far surpassing the expectation of all, and it was remarked by many that this alone was well worth the trip to St. Louis.

The committee on final resolutions thanked the florists and citizens of St. Louis for their cordial hospitality, Mayor Walbridge for his hearty words of welcome, Prof. Trelease and the trustees of the Botanical Garden for their entertainment at the garden, the St. Louis Florists' Club for its kind assistance in the work of the convention, for the carriage ride, and many other hospitalities, the Pastime Athletic Club for the use of its bowling alleys and other privileges, the Anheuser-Busch Brewing Association and Mr. D. S. Brown for their kind attentions, and expressed on behalf of the society their sense of obligation to Messrs. Nicholson, Wittmack, Lemoine, and others, for honoring the society with their presence.

Friday evening Prof. Wm. Trelease invited a few friends to dine with him at his residence in the Missouri Botanical Garden. The party included Messrs. Geo. Nicholson, Robt. Craig, Wm. R. Smith, W. A. Manda, Fred Kanst, John Thorpe, J. C. Vaughan, M. Lemoine, E. H. Krelage, E. G. Hill, A. T. De la Mare and G. L. Grant. The affair was strictly informal, the dinner was excellent, and all present enjoyed themselves heartily.

?

"I Want to Know?"

?

New York.

?

Certainly they celebrated.

?

Yes, it was a scrub team.

?

Yes, they did it without the "big fellows."

?

Oh, no, Philadelphia did not want to win this year. "This makes it more interesting, you know."

?

Why, yes, the New Yorkers were somewhat hungry when they reached St. Louis.

?

Of course! The Philadelphians did crow considerable because *they* didn't miss their supper.

?

Yes, they would have given up their suppers for a week if by so doing they could have captured the St. Louis cup.

?

No, not one of the Buffalonians got out in the morning to see the New York and Boston delegation as they passed through.

?

Yes, Phil Breitmeyer was on hand at Detroit with a hearty hand-shake and welcome.

?

It was E. G. Hill who said that we might as well shut up shop as to try to run a flower show without the help of the newspapers.

?

Yes, the address of welcome by the Mayor of St. Louis was one of the best speeches ever listened to by the society.

?

True, alas, too true, it was Geo. Watson who defended the catalogue men, exaggerated illustrations and all.

?

Well, yes, the New Jersey men think that Philadelphia did commit piracy in appropriating Atlantic City.

?

No, the captain of the scrub team did not find any twin mosquitos.

?

Yes, John Thorpe's dog learns a new trick every day.

?

Sure! The Anheuser-Busch trip.

?

Yes, plenty.

Benefits of a Closer Co-operation between Growers and Retailers as Regards Regulating Prices.

BY ROBERT KIFT, PHILADELPHIA.

[*Read before the St. Louis convention of the Society of American Florists.*]

There is no system so perfect that it is not open to improvement, and the loud complaints that are constantly heard show that growers and dealers are much dissatisfied with the present methods of marketing cut flowers. It is a very slow season indeed that does not hatch out one or more schemes having for their object a more perfect system in handling flowers and regulating prices.

Perhaps it would be well to take a general view of the situation. One retail dealer will buy the great bulk of his stock directly from the grower, making in some cases contracts for the entire crop. He will be heard to declare that this is the most satisfactory way of doing business, and he wonders how anybody can be so foolish as to pay outside prices to a commission man, when he can get flowers so much cheaper by dealing directly with the grower.

A season or two passes by, and the same dealer is found to be a regular customer of the commission man, and now firmly believes that this is the system by which all flowers should be handled in a wholesale way. He will say, "You see, when I contracted with Brown his flowers were the best in the market, and he sent in just about as many I could use, but after a while the stock commenced to pile up on me so that I couldn't possibly use it all and the bills were something frightful. In cold weather, when flowers were scarce, I didn't get enough and had to go outside and pay high prices. Finally my experience was that when flowers were most in demand I did not get enough, and when the dull season set in I had more than I knew what to do with. This is the reason I made the change."

On the other hand a certain grower ships all his products to be sold on commission; he says it is the only way. He has tried the retail dealer, but has no use for him. It was all right at first, when flowers brought a good price and he could sell them anywhere; in fact men came to the place after them. Then everything was lovely, but after the crops were in full swing and flowers began to get plentiful he would get all sorts of complaints from the dealer and finally have the crop thrown on his hands when there was little or no market for it.

Another grower we find with his gun loaded for the commission man; he says he is a rascal, a cheat and a fraud. As long as flowers were scarce he got a fair price, but after they became plentiful his returns were hardly sufficient to pay the expenses of shipping. He had known of certain consignments of his being entirely sold almost as soon as they were offered for sale, but finding no evidence of this among the returns he was told, after demanding an explanation, he had to divide up with others, whose stock, though as good as his, had gone to waste.

These and similar complaints are to be heard from both sides. Occasionally growers are met who say they are very well satisfied with the way their stock is handled, and there are dealers who, thinking they have a kind of monopoly of the best flowers, prefer the system prevailing in their locality and are opposed to any plans for its improvement.

I believe the entire solution of this vexed question lies in the establishment of a flower market in every large city. This can be done by the co-operation of the commission men and the growers. Let them have all the flowers grown about any large city offered for sale in one place or market early every morning, and they can depend upon it the retailers will do the rest. Cut flowers are a perishable stock, and have to be handled in such a way after they are cut as to reach the dealer with the least possible delay, and I fully believe that in no way can this be done better than by sending them to a common center from which they can be selected. In such a place the grower and the dealer or their representatives meet and the question of regulating prices is soon settled. Combinations to regulate prices almost invariably fail. They may succeed for a time, but finally the projectors find that what they make by the combination is eaten up in the cost of running the machine, which soon breaks down and is found to be beyond repair.

Prices regulate themselves. If buyers are plenty and flowers are scarce the price goes up; it cannot be kept down. The dealer must have stock for his customers; he will even buy that which he has little demand for in order to get a popular flower of the season, as "You cannot have my Beauties unless you buy something else" is a very familiar expression to retail men.

On the other hand, when flowers are plentiful prices fall just as naturally as water runs down hill. Try to stop them and you have a dam, an additional load to carry, but if the price is kept at even pace with the current all will be well and things will run on smoothly as before.

The establishing of a market does not mean that the commission merchants are to go out of business; by no means, they are to be part, and a very large part, of any such corporation. The growers or their men, who waste valuable time going from one store to another, littering up the dealer's counters with their boxes and baskets when he is busy are also to be a part of the market.

And lastly the dealer, who waits for Tom, Dick and Harry to come in with their flowers in the morning and stands impatiently looking at the clock, and every few minutes steps to the door to see if Jones, who should have been there an hour ago, is not coming with his Brides, and finally sees his would-be customer obliged to go to make a train without being served. He is to be there, yes, make no mistake, he will be there; his men will be found early in the morning waiting for the stock to arrive. The 34th street ferry market in New York opens at 5 a. m. and the business is all



GROUP PHOTOGRAPH OF THE S. A. F. AT FOREST PARK, ST. LOUIS.

over as a rule before 8 a. m., and who shall say that this market has not been a success?

You may ask why these markets have not been established long ago.

It is because when a man is succeeding fairly well with his business by pursuing certain methods he is loth to make a change. The commission merchants have certain customers who regularly visit their establishments and to whom they sell the bulk of their stock. With the growers who peddle their stock from store to store it is much the same; they go over their route day by day and build up the trade upon which they depend. It has always been my thought that it is the fear of losing this established custom that has made the commission men and the growers so unwilling to take any part in a movement to open a market or to centralize the business in any way. I have turned the subject over and over and have discussed it with growers, commission men and dealers alike, and I cannot see but that all departments of the trade have everything to gain and nothing of value to lose. All the flowers in one place will bring all the customers to that centre, and this much-discussed regulation of prices will settle itself. Such a place will be the axle or center upon which all business will turn. The dealers whose trade demands the best flowers will be early on the ground to bid against one another, and so on down to the fakirs, who are always to be found and who may be called the scavengers of the market.

The 34th street ferry market in New York was started by the eagerness of the retail florists to get stock early in the morning. They couldn't wait for their grower to come with his flowers and perhaps find out at the last minute that he did not have what they wanted. They found it a better plan to meet him at the ferry when the boat came in, and then if his stock was low there were other growers from his neighborhood who could supply them. I have seen a large basket of flowers brought into the restaurant where the market was held containing probably anywhere from $50 to $100 worth of flowers cleaned out almost before they could be properly accounted for. As good prices are obtained here as in the stores and commission houses down town for the same class of stock. Commission men who receive flowers by way of the ferry invariably offer them for sale there first. As much as $10,000, or business to even more than this amount, has been transacted in a single day. This place, once a convenience, has grown to be a necessity, and is now firmly established in commodious quarters and is managed by a stock company, the members of which are all men interested in the business and success of the market.

One objection to this plan, advanced by some of the men who peddle their stock, is that if a market was started a number of the growers would not join the movement, but acting independently would sell their flowers as usual by carrying them around, and the dealers being supplied would not visit the establishment.

In order to make a radical change such as this would be to most communities it would be necessary to have the co-operation of a majority of the parties concerned. That is to say, growers controlling more than half of the flowers offered for sale would have to agree that their business should be transacted in the market, either by themselves or through commission men. This accomplished success would be assured, as the balance of the trade would soon follow. Now when the peddlers appeared they would be told that "Our buyer is at the market," and they would very soon have to fall in line.

Again, I am told that when a glut is on the fakirs will flood the streets and ruin the business of the storekeepers.

In New York at certain seasons of the year enormous quantities of flowers are daily offered for sale, very many more than can be handled by the present store system. In these periods of apparent over-production the fakir is welcomed with open arms by the large commission houses, and tens of thousands of dollars' worth of flowers reach the public through these curbstone merchants that would never be sold in any other way. In spite of this opposition, however, the retail business of New York city is growing rapidly and the beautiful stores and handsome turnouts of the prominent florists give every evidence of prosperity.

In conclusion I believe that the fault lies not in over-production, but in an imperfect system of reaching the consumer. A great deal is said about extravagance of the people in buying flowers, but I believe that less money is spent for these products of ours that do so much to elevate the taste and bring joy to mankind than for any other luxury.

Let us all, therefore, co-operate, work together and bring our flowers before the people, the whole people, rich and poor alike, and the returns will be found most satisfactory to every department of the business.

Horticultural Exhibitions; How to Make Them Successful.

[Abstract of paper read by Wm. G. Bertermann, Indianapolis, before the St. Louis convention of the S. A. F.]

It would be well to divide this subject into three parts: trade exhibitions, exhibitions for artistic effect and exhibitions for profit.

Trade exhibitions are held simply for the purpose of enabling the wholesalers to display their specialties to the retailers. These exhibitions in connection with our annual conventions have grown in importance, and are also improving in the quality of exhibits and number of goods shown. While it is not absolutely necessary to have elaborate decorations at these trade exhibits they should have a finished and clean appearance, and that can only be had by a systematic arrangement of the space assigned for that purpose. Each separate exhibit, if finished up nicely in correspondence with the bal-

ance, will be more effective than goods set up with no apparent desire to please the eye. The trade exhibitions are generally open to the public free of charge, and the managers should see that the room or hall is inviting, and that all exhibits are given attention during the days of convention. I do not think it advisable to charge admission to these exhibitions.

Exhibitions for artistic effect: This is a subject of great importance. The exhibitions are generally given for the purpose of showing the public the advance of floriculture, and also how flowers can be used to the best advantage and with most artistic effect. In arranging for these exhibitions do not lose sight of this fact. We must have a committee on decoration and a committee on arrangement of displays. They must work together to give the whole exhibition an artistic and finished appearance. But can we give this appearance with cheap muslin flags, Chinese lanterns, or other cheap material, that can be seen every Fourth of July, or on other holidays? Certainly the plants, flowers and other displays must also be first class, but these can be viewed at leisure when in the hall proper. At the first glance the general effect must be striking and also greatly different from the last exhibition. This general effect (everything else being in keeping) will be worth many dollars in advertising the exhibition.

After giving the visitor this good impression let us see what we have to show him in detail. Here we have a display of well grown, large, blooming plants, chrysanthemum or other kinds; there a symmetrical bed of single stemmed chrysanthemum plants; here a fine group of tropical plants, there a specimen palm on a high pedestal, its sides hung over with vines. Now we come to a low table of well arranged cut flowers in bowls and vases, the table covered and hung on the sides with clean white muslin; between the bowls and vases ferns, smilax or asparagus, always kept in fresh condition. Then comes a table of large chrysanthemum blooms and a table of beautiful roses in suitable bowls or vases, intermingled with adiantum plants. Then comes the orchid display, either arranged in a cave or in exquisite glassware, backed with a large mirror, or they could be arranged on a mossy green bank, anywhere so they can display their full beauty.

In one corner of the hall the flower booth should be located, nicely arranged and decorated. The best flowers that are in the market should be on sale, and of course by all means have a few good looking young ladies to sell the same. These should be competent. Generally daughters of members attending the exhibitions take a pride in helping to make the flower booth a success. I find that a great many plants can also be sold in the flower booths during the exhibition, especially where there is an attendance from a distance.

Arrangements must be made to reserve a part of the floor space for chairs and settees; a corner here, a small space there, for a few chairs in under some palm, or in a doorway not used, are excellent places to take a rest. Now the music must come in for a share of attention; take the best you can get, it will be appreciated. Sometimes some special feature in the musical program will more than repay the cost of it in increased attendance. I find you can not get too many special features in your exhibition, taking for granted that they are suitable.

The decoration of the stage is generally a hard job, especially when funds are limited; still it must be done and helps the general effect. If the ceiling of the hall is high and suitable for a center piece something should be thought of in time, a large bell, a canopy, etc. From this you can arrange your laurel wreathing hung with Florida moss, large balls of palm leaves, or pampas grass. Some say all this is not needed. I am always afraid to leave out the finishing touches to an exhibition. The entrance to the hall should require the decorator's attention without fail, it is an advertisement in itself. Whatever there is about floral exhibitions must be considered as coming from the florists' trade, and the public judges accordingly.

Exhibitions for profit: The first question is, must we make money out of our annual exhibitions? No, I think not, but enough should be taken in at the doors to cover all expenses. Speaking for myself, I have always been in favor of making an exhibition an artistic effect, no matter how the result would be in a financial way. The show or exhibition must be a success in regard to excellence. I think if that can be done it pays the profession, while it does not at the end leave a surplus in the treasury. It will, however, prove a financial success if not abandoned too soon. I remember well when our society held their first exhibition seven years ago. We had great expectations. Everything was arranged to have a great exhibition, and the committee and a good many members expected to see the people crowd into the hall the opening night, but what was our surprise when barely enough came to make a sprinkling between the beds of plants and tables. The following days and evenings the attendance increased, but not near what was expected, and this in spite of the glorious description given in the daily papers of our undertaking. But considering that everything has a small beginning we consoled ourselves that the next exhibition should show a better result. We have kept on, our receipts increased, but our expense also increased. We found that it was necessary to do more elaborate advertising, especially as we intended drawing on country attendance. We now have arrived at the point that the public expects and awaits with pleasure our annual exhibitions; to some extent it is the social event of the season among the well-to-do. I don't mean to say that our attendance consists only of the rich, but these are the visitors that must set the example.

Right here I would advise all managers of exhibitions to make the admission not less than fifty cents, in the evening especially when you have good music, which sometimes is alone worth the price of admission. The point is well taken that twenty-five cents would be cheaper for a certain class of people, but our experience is that the majority of visitors are well-to-do. They are willing to pay for a show that is worth seeing, and we must educate them to the point that a beautiful show can not be prepared at great expense and seen for twenty-five cents. You will keep this class of visitors away with a cheap admission, but if you wish to draw the general public for the evenings one night could be set apart for twenty-five cents. During the day I would advise at all times a twenty-five cent admission, because if you have attendance from outside of the city they figure on the expenses coming on the railroad, then you have a great many who bring their children to see the show. Children under twelve I advise admitting free at all times.

Advertising needs careful attention. The principal newspapers should be given a good sized advertisement, others a few lines. Of course the reporters and editors must be taken care of, and it is the committee's fault if the reports are all of a heap, mis-spelled and mis-named. Advertising by issuing a souvenir has been found by some committees an excellent idea. A good supply of neat window cards, some money spent with the bill poster, slips for merchants and members to put in their letters, and many other ways may be found for bringing the affair before the public. Special premiums are a great help if given willingly. More general displays and less competitive displays is my plan for future floral festivals. A great deal might yet be said about the judge system, the display of designs, etc., but these are all items for the exhibition proper, and while they help to make the show a success they are out of the reach of my paper.

How Can We Best Increase the Love of Flowers Among the People.

BY GEO. C. WATSON, PHILADELPHIA.

[*Read before the Society of American Florists at the St. Louis Convention.*]

[CONCLUDED FROM LAST ISSUE.]

The superintendent of public schools might be called upon by a competent committee and means and ways devised whereby the study of gardening and botany might be greatly facilitated. Donations of young plants might be given to the scholars to grow and exhibit. Specimens of flowers might be sent to the schools to assist the teachers with their botany classes in winter. The scholars might all be given a free view of every flower show, or if that were impracticable, those showing a certain proficiency in learning their lessons might be given a ticket to the flower shows as a prize. A great deal can be done through the public schools if it is only gone about systematically. If it is necessary to raise money to accomplish this, the money can easily be raised. The average man or woman would much rather give a dollar for such an object than to buy petticoats and preaching for the Hottentots.

Get the newspapers interested. Establish a letter-writing corps in your town or village. Divide the work among the members of this corps, giving each one a subject to write up for a specified date. If there are twelve members in the corps this would only require one letter from each member in three months; but your local paper or papers would be supplied with a *weekly letter* on gardening and the individual effort would be very slight. The newspaper or newspapers should be approached in the beginning, the object to be attained explained to them, and how the same could be accomplished with their help. They would be only too glad to acquiesce, because a weekly letter like that suggested would be a valuable and attractive feature in any newspaper.

Encourage any member of your horticultural society and every one who is at all interested in flowers or plants to subscribe for at least one paper devoted exclusively to horticulture. There are several good papers of this description; the following may be specially mentioned, *Gardening*, published in Chicago, a dollar a year; *American Gardening*, published in New York, a dollar a year; *Garden and Forest*, published in New York, four dollars a year. Suggest to a beginner anx-

ious to learn that a good practical book on gardening is one of the first things he has to get and study up. The weekly, bi-weekly, or monthly gardening paper will be the more appreciated once the fundamental or rudimentary rules of gardening are thoroughly mastered. Recommend some book specially written for this climate, such as Practical Floriculture, by Peter Henderson; or the Garden's Story, by G. H. Ellwanger. If their purses warrant every gardener or would-be gardener should also possess a copy of Nicholson's Dictionary of Gardening if he would be thoroughly posted and up to date.

So far, our consideration has been mainly directed to the agencies with which we are all concerned; but there are other agencies that only a limited number of us are connected with. Among these latter the most important is the the work of the catalogue men. Any essay, however limited or superficial, would be greatly lacking, if it did not recognize the grand work which the modern catalogue is doing in spreading a love of flowers among the people. The catalogues go everywhere all over the country—to the log cabin on the prairie and the miner's camp on the mountain, as well as to the home of the farmer and suburban resident near the centers of population. The catalogue is the real pioneer in spreading a love for flowers. Away in the backwoods, where literature is represented mainly in tree-leaves and blades of grass, the catalogue is welcomed as eagerly as the first snow-drop of spring, its wonders are a source of endless delight to young and old, its big cabbages and enormous potatoes, its overgrown tomatoes and ponderous pumpkins, are more effective in tickling the risible sensibilities of the farmer and his family than all the witticisms of all our Eastern funny papers rolled together. And what harm if they do laugh a little and take the jocular seedsman in his own vein! Far be it from us to encourage misrepresentation, renaming, and kindred evils which we all deplore. But did any one ever consider this phase of the subject, that to catch the attention of your prospective rural customer it is necessary to use a little vigorous metaphor at times. If a seedsman claims that his "Jumbo Pumpkin" is almost as big as Jumbo, your backwoodsman is amused and skeptical; but he buys some seed of this "Jumbo" all the same *just for fun*. Now, so long as they make a commencement in gardening and begin to beautify their homes, what does it matter if it was *just for fun* they began, and who will dare to breathe a syllable against the catalogue that induced them. Let us bless the catalogue and the catalogue men, exaggerations and all, and if we must admonish those Munchausens amongst them once in a while, let it be gently done, for horticulture owes them a debt of gratitude that she can never repay.

There is one way that the S. A. F. could help the catalogue men, and that is by starting a movement to have flower and plant catalogues carried at newspaper rates. Considering the noble work the catalogues do in spreading a love of flowers among the people they have the strongest claim on the consideration of the post office department, and a competent committee should be appointed by the S. A. F. to accomplish a reduction in postage if possible. Many seedsmen have already managed this by calling their catalogues "flower magazines," and the ex-postmaster general actually had a book catalogue and price list called "Book News" carried through the mails at newspaper rates. But what we want is to treat all alike—put all on the ground floor and carry all their printed matter at the same rate, no matter what they may call it, a catalogue, a magazine or a newspaper. The S. A. F. secured, by well directed efforts, a reduction in the rates of postage on seeds and plants, and there is no reason why they should not be equally successful with this other reform.

In conclusion just one word for the good work that is being done by our periodical literature in spreading a love for flowers. When such magazines as the *Ladies' HomeJournal*, with its 750,000 circulation every month devotes a large space regularly to this subject, employing the best artists and such able writers as George H. Ellwanger, F. Schuyler Mathews, H. H. Battles and other experts, it will be readily admitted that the influence for good is enormous. The *Ladies' World*, the *Delineator*, *Demorest's*, with their enormous circulations also follow on the same lines, and there are hundreds of other papers with smaller circulations that are also doing splendid work. The only regret in regard to the latter is that they are not always thoroughly reliable. For instance that awful calla story will be printed by them every time it comes along, no matter how often it may be exposed and laughed down. There is only one way to secure improvement in this respect, and that is for these papers who can't afford a horticultural editor to get a weekly syndicate letter from some competent writer and use that instead of the hap-hazard matter they now print. Perhaps there is a field here for a national letter writing corps similar to that suggested for local societies?

These few suggestions are but random thoughts from a host that come crowding for recognition when one begins to think this matter over, and it is almost impossible to do such a big subject any kind of justice within the limits of a short essay. Remembering, however, that this is summer weather, that St. Louis is far from the cooling breezes of Atlantic City; and that the "quality of mercy should not be strained", feelings of compassion for the sweltering condition of the members demand that this matter be cut as decollete as possible. The foregoing may therefore be briefly summed up as follows:

SYNOPSIS.

I. Give cordial support to the S. A. F. and its affiliated local organizations and the trade papers.

II. Give active assistance to all horticultural societies especially to that in your own locality.

III. Train the young. Encourage plant growing among scholars at public and Sunday schools, botany classes and similar efforts. Above all make the grounds of your school house beautiful.

IV. Interest the newspapers, and keep them supplied with reliable matter by establishing a letter-writing corps in each locality.

V. Recommend every member of a horticultural society to subscribe to at least one gardening paper, and if a beginner in gardening also see that he studies up a reliable treatise on the subject of gardening.

VI. The modern seed and plant catalogue being the most effective pioneer in spreading a love of flowers, especially in isolated localities, it should be encouraged as much as possible, and a movement to reduce postage on same to newspaper rates cordially supported.

VII. Let measures be taken to form a syndicate of horticultural writers to supply the periodical literature of the day with reliable matter, to take the place of the hackneyed and unreliable and uninteresting stuff that is now largely in use. This syndicate would be self-supporting, as their matter would have money value.

If these and the many other suggestions that will doubtless be brought out from the members during the discussion of this subject be actively and conscientiously worked out by each and all of us as far as lies in our power we will have the pleasure of witnessing a great increase of a love of flowers among the people. This love of flowers is growing now, and we want to see it keep on growing until this country becomes a fairy-land of beauty, dotted with beautiful gardens all over its wide expanse. When Columbus first came over here in 1492 he found a beautiful country. Here is what he wrote in his journal.

"The Beauty of the new land far surpasses the *Campana de Cordova*. The trees are bright with an ever verdant foliage and are always laden with fruit. The plants on the ground are high and flowering. The air is warm as that of April in Castile, and the nightingale sings more melodiously than words can describe. At night the songs of other smaller birds resound sweetly and I have also heard our grasshoppers and frogs. Once I came to a deeply enclosed harbor, and saw a high mountain that had never been seen by mortal eye, and from whence gentle waters flowed down. The mountain was covered with firs and variously formed trees with beautiful blossoms. On sailing up the stream which empties itself into the bay, I was astonished at the cool shade, the clear crystal like water, and the number of the singing birds. I felt as if I never could leave so charming a spot; as if a thousand tongues would fail to describe all these things, and as if my hand were spell-bound and refused to write." (*Journal of Columbus on his first voyage* (1492) *from A. Von Humboldt's "Cosmos."*)

A delightful picture truly and showing that the old discoverer fully appreciated the beauties of the new country. Indeed we have to admit that he did so in a greater degree than do a large percentage of its present denizens. We are so busy looking after the almighty dollar, and bragging about the bigness of our country that we have neglected to do much in the way of making our country even more beautiful than it is. But we are coming to that too and bye and bye we will not only have the biggest but also the most beautiful the world has ever known—a fairy-land of flowers, a paradise on earth.

How Can We Best Increase the Love of Flowers Among the People of This Continent.

BY ROBERT CRAIG, PHILADELPHIA.

[*Read before the St. Louis Convention of the Society of American Florists.*]

That is to say, how can this society work to the best advantage in this direction? There is no doubt that the love of flowers and ornamental plants, and interest in their cultivation, is more general in America now than at any previous time. This is evidenced by their increased use in public parks, cemeteries, at railroad stations, and in private gardens and grounds. Every member of this Society can do something to help on the good work. Flowers and plants need only to be shown to the people in attractive arrangement and under good cultivation to make their own way to the hearts of every one, and a florist cannot do better than to begin at his own home to show a little good floriculture. Most of us have not fully improved our opportunities in this respect; we cannot do too much in making our own home surroundings attractive with flowers and thus give our patrons ideas of what may be done.

The various florists' clubs throughout the country should improve every opportunity for cultivating public taste. Let me throw out a few practical suggestions. Why would it not be a good idea for each florists' club to select a hotel or theatre or other public place and keep it decorated (at a nominal cost to the proprietors) for the purpose of cultivating public taste? The work could be so divided up among the members as to be but a light tax on each, or a part of their fund could be devoted to this object. This would certainly be productive of good results. Papers should be read at the club meetings giving amateurs an idea what to grow in their gardens, with detailed cultural information, suggestions as to arrangement, etc., and also information as to plants best suited for house culture and their proper treatment under such conditions. All such matter the daily papers and weekly and monthly magazines would gladly publish. Most of the disappointments of amateurs in attempting to grow plants arise from ignorance; and they would be very grateful for such help as the florist club could easily them.

These organizations should also take more interest in the floricultural embellishment of the public parks. In some cities, notably Chicago, a special tax is levied for the purpose of keeping up the parks, and a liberal portion of this special fund is set apart for flowers, and I am informed by many citizens that no part of the public tax is more cheerfully paid. The people enjoy the flowers, and many of them fall in love with them and are tempted to grow them around their own homes. The parks are great educators, and the florists' clubs everywhere should use concerted efforts to have a portion of the public funds devoted directly to the cultivation of flowering and ornamental foliage plants in public grounds; in no way could they do more good.

Public exhibitions should receive the cordial support of every club and every individual; it should be considered as a duty for each to make some personal sacrifice for the general good; there is nothing new in this idea, but it cannot be too often advanced. As an evidence of what concerted effort and a little enthusiasm may accomplish permit me to remind you of the exhibition of carnation blooms held in Pittsburg last February by the young branch of this organization, the Carnation Society. I have seen many large exhibitions, but I am free to say I never attended any one so perfectly delightful. What marvelous flowers! There was never before brought together such an exemplification of the possibilities of the "Divine Flower," and the only weakness in the management of the exhibition was that it was not fully advertised. Special and truthful reports of all exhibitions should be prepared for the press; it is gratifying that all good information of this kind is cheerfully published; this is one of the hopeful signs of the times. About two thousand of the Pittsburg people saw this show; it was capable of delighting the whole population. It was a demonstration that Mr. F. Dorner and other American raisers of seedlings have carried the development of the perpetual carnation further than any of their compeers.

What has been done by that young organization should stimulate the Chrysanthemum Society and the Rose Society, and should hurry on the advent of the Orchid Society and other potential sub divisions of the S. A. F. I might advance other ideas, but think we should not at present attempt more than we can conveniently do; it is not difficult to act upon the one or two suggestions thrown out, and if this is done these few remarks are not made in vain.

The Dark Side.

Among the visitors from Boston to the St. Louis convention was Mr. Alex Montgomery, the well known manager of Waban Rose Conservatories, who, with his brother John and his son Alexander, accompanied the Boston party and attended the meetings of the first two days. They left St. Louis for Chicago on Thursday evening. On Friday morning a telegram was received at St. Louis conveying the sad intelligence that their mother had been terribly burned by an oil stove and that it was doubtful if she could survive. Friday and Saturday were spent in a frantic endeavor by Mr. Montgomery's friends to locate him, but the World's Fair is a large place, and notwithstanding all the efforts put forth the search was fruitless, and it was not until Sunday afternoon, when Secretary Stewart chanced to meet them unexpectedly in the fair grounds, that Mr. Montgomery and his party learned the sad tidings, and immediately started for home, In the meantime the news had been received by others, but without Mr. Stewart's knowledge, that the lady had died on Saturday morning. This sad event cast a shadow over the pleasures of all, and many and heartfelt were the expressions of sympathy and sorrow.

Mr. and Mrs. John Burton of Philadelphia were also called home suddenly by a telegram announcing that Mrs. Burton's mother was seriously ill.

The Trade Exhibit at St. Louis.

E. H. Hunt, Chicago, Florists' Supplies, Bulbs, Seeds and Garden Implements.

W. J. Hesser, Plattsmouth, Neb., Palms and Decorative Plants.

Thompson, Anderson & Kennedy, St. Louis, Model of Greenhouse, 20 foot span.

Chadborn Kennedy Manufacturing Co. Fishkill, N. Y., Automatic Ventilator.

Lockland Lumber Co., Lockland, O., Greenhouse Building Material.

W. H. Elliott, Brighton, Mass., Asparagus.

Quaker City Machine Works, Richmond, Ind., Challenge Ventilating Apparatus

J. D. Carmody, Evansville, Ind., New Departure Ventilator.

H. A. Dreer, Philadelphia, Palms, Ferns, and Decorative Plants.

Edwards & Docker, Philadelphia, Waterproof Cut Flower Boxes.

E. Hippard, Youngstown, O., Ventilating Apparatus.

C. H. Joosten, New York, Fostite, Magazine Bellows and Bulbs.

W. K. Harris, Philadelphia, Ficus elastica.

J. J. Polexfen, Baltimore, Fumigating Insecticide.

Detroit Flower Pot Manufacturing Co. Flower Pots.

Michel Plant and Bulb Co., St. Louis, Bulbs, etc.

Whilldin Pottery Co., Philadelphia, Flower Pots and Fern Pans.

John Gardiner & Co., Philadelphia, Bulbs and Mushroom Spawn.

Peter Herb, Mt. Healthy, O., New Carnation "Adalaida Kreskin."

Marschuetz & Co., Philadelphia, Baskets, Metal Goods and Supplies,

A. H. Hews & Co., Cambridge, Mass., Flower Pots.

E. Kaufmann & Co., Philadelphia, Florists' Supplies, Baskets and Metal Goods.

F. E. McAllister, New York, Seeds and Supplies.

F. R. Pierson Co., Fishkill, N. Y., French Cannas.

Pitcher & Manda, Short Hills, N. J., Decorative Plants.

A. Wiegand, Indianapolis, Palms and Pandanuses.

H. Bayersdorfer & Co., Philadelphia, Supplies, Baskets and Wheat Sheaves.

C. A. Kuehn, St. Louis, Wire Clamp Florists' Designs.

Boston Letter Co., Florists' Letters, etc.

J. C. Meyer & Co., Boston, Silkaline.

D. B. Long, Buffalo, Photographs.

J. C. Vaughan, Chicago, Bulbs and Plants.

The following awards were made by the judges:

H. A. Dreer, for collection of decorative plants, a certificate of merit.

Chas. D. Ball, for collection of decorative plants, honorable mention.

Pitcher & Manda, for collection of decorative plants, honorable mention.

W. J. Hesser, W. K. Harris, A. Wiegand and J. G. Heinl for exhibits of plants, highly commended.

Pitcher & Manda for collection of bulbs, a certificate of merit.

John Gardiner & Co. for collection of bulbs, honorable mention.

H. A. Dreer, for collection of bulbs, highly commended.

Peter Herb for new carnation "Adalaida Kreskin," a certificate of merit.

F. R. Pierson Co. for canna blooms, honorable mention.

Michel Plant and Bulb Co. for the "Albino" tuberose, honorable mention.

H. Bayersdorfer & Co. for display of florists' supplies, a certificate of merit.

E. Kaufmann & Co. for display of florists' supplies, honorable mention.

F. E. McAllister for display of florists' supplies, honorable mention.

Marschuetz & Co. for display of florists' supplies, honorable mention.

E. H. Hunt for collection of florists' supplies, honorable mention.

N. F. McCarthy & Co. for fancy pottery, highly commended.

C. A. Kuehn for wire designs, honorable mention.

E. Hippard for "Standard" ventilator, a certificate of merit.

Quaker City Machine Co. for "Challenge" ventilator, honorable mention.

Detroit Pottery Co. for flower pots, honorable mention.

Whilldin Pottery Co. for flower pots, highly commended.

Lockland Lumber Co. for cypress building material, certificate of merit.

Thompson, Adams & Kennedy for section of modern rose house, a certificate of merit.

Edwards & Docker for waterproof cut flower boxes, a certificate of merit.

The Bowling Contest.

This was, as usual, a decided attraction at the convention and on Saturday morning every foot of seating space along the alleys of the Pastime Athletic Club was filled. Four teams entered, namely, New York, Philadelphia, St. Louis and Chicago. Some excellent scores were made and applause from the spectators was frequent and prolonged. New York won both the St. Louis and Spaulding cups, while the individual prize for highest score went to Mr. W. K. Harris of the Philadelphia team, who made a score of 240. Refreshments were served ad libitum by the St. Louis boys, who omitted nothing that could add to the com-

fort and enjoyment of their guests. An engraving of the cup offered by the St. Louis club and won by the New Yorkers is given in this issue.

Following is the score in detail:

NEW YORK.

	1st game.	2d game.	3d game.	
P. O'Mara	159	195	149	
W. Dihm	161	197	203	
W. S. Allen	159	152	161	
Jos. Manda	164	167	166	
E. Leuley	170	206	177	
W. A. Manda	159	138	160	
	972	1055	1016	—3043

PHILADELPHIA.

Geo. Anderson	182	162	151	
John Westcott	120	101	137	
Geo. Craig	129	176	148	
W. K. Harris	240	144	163	
Robt. Kilt	122	144	140	
A. L. Brown	169	145	178	
	962	872	917	—2751

ST. LOUIS.

R. F. Tesson	154	156	163	
J. J. Benecke	132	217	111	
H. Young	136	155	170	
C. Beyer	117	180	134	
C. Juengel	182	128	138	
C. A. Kuehn	126	146	113	
	847	982	829	—2658

CHICAGO.

P. J. Hauswirth	106	160	129	
G. L. Grant	179	161	138	
A. McAdams	133	149	103	
W. Kreitling	130	76	103	
J. Wilson	132	142	161	
H. Balsley	147	126	137	
	827	814	771	—2412

At the conclusion of the contest by the teams the captains played three games, with the result in favor of New York. Following is the score:

CAPTAINS' GAMES.

	1st game.	2d.	3d.	Total.
New York (O'Mara)	152	221	192	—565
Phila. (Anderson)	194	154	191	—539
Chicago (Hausw'th)	158	213	134	—505
St. Louis (Benecke)	143	136	157	—436

The prizes were then presented, and led by Mr. O'Mara, all joined in giving three rousing cheers for the St. Louis boys and the Pastime Athletic Club.

The World's Fair.

The caladiums are still in fine order, and are well arranged under the dome and in the south curtain. A quantity of new varieties, just received from Brazil, were potted about two weeks ago, and will be in good condition in a month or six weeks time. It is expected that they will make an interesting display, as they were all sent as novelties. The plants under the dome have done very well, continuing in good condition.

The lily of the valley is now displayed under the dome. There is not a great variety of flowering plants at this season, and they are a great addition. Among the orchids now in bloom is Vanda cœrulea, some ærides, cypripediums, mormodes, etc. A very fine crinum is in bloom in the south curtain; it is an old plant belonging to Mr. Jno. Goode, and has a tall inflorescence of huge fragrant flowers, soft pink, outside shading to crimson. Supposed to be C. Zeylanicum.

The Lemoine gladioli are still in good bloom north of the Horticultural Building, and there are also some very good sorts shown by E. Forgeot, of Paris. But Lemoine's hybrids are the chief glory; among them is Pactole, a deep golden yellow, and Etoile d'or, paler yellow, but really two of the best gladioli of that color one could wish. The crimsons, pinks and scarlets show some excellent effects, and there are some rich heliotrope purples that are a decided step in the direction of blue. A gladiolus of genuine blue does not seem such a faraway possibility. There is an exhibit of cut gladiolus blooms under the dome from C. H. Allen, Floral Park, N. Y., which is agreeably arranged in connection with the lily of the valley.

The canna beds are doing famously, flowering freely for the most part, and attracting much admiration. It may be noticed, however, that some of the yellows that are something between salmon and apricot appear more inclined to burn in the sun than the clear yellows or reds. Where a bed is planted with one variety only in a mass the effect is better than when the varieties are mixed.

The aquatics are growing nicely, though flowering but little yet. In the New York greenhouses the roses are in good bloom; Mrs. W. C. Whitney is flowering very freely. The tuberous begonias are so far improved that they can now permit the flowers to remain. Out of doors the tuberous begonias advance but little; it seems to be a trying locality for them.



THE ST. LOUIS CUP. WON BY THE NEW YORK BOWLING CLUB AT THE ST. LOUIS CONVENTION

In the department greenhouses there is plenty of stuff just coming on; the chrysanthemums are doing very well. A good many are planted in boxes, so as to make a large mass of bloom. All the usual summer propagating operations are being carried on, so that any unexpected call for material may be filled.

Outside this is rather an awkward time; the summer stuff is beginning to suffer, and autumn flowers are not yet ready to take its place. It is so extremely dry, too, and there is a scarcity of water as well as help.

Among the sunflowers now showing one of of the most attractive is H. argyrophyllus, a large annual sort. The leaves are a silvery green, the ray florets sulphur yellow, with dark brown disk. It is large in both growth and flower, and makes a very handsome showing. The sunflowers in variety will be very showy from now on. The Island is suffering very severely from the prolonged drouth; trees and shrubs, as well as flowering plants, are burning badly. Two days of soaking rain would be of incalculable advantage to the autumn flowers.

The Horticultural Congress.

The Horticultural Congress of the World's Columbian Exposition at Chicago convened in the Memorial Art Palace on Michigan avenue on Wednesday morning, Aug. 16, as per published program. There was a large attendance and much interest was manifested.

President Bonney of the World's Congress Auxiliary welcomed the visitors in the following words:

"Friends of the seed, the flower, the fruit; fair trinity of potency and beauty and use: The fairest conception of human existence is of life in a garden, with its exquisite beauty and peace, and from which culture and care have banished every hurtful thing. Among the pictures in the temple of my own memory there is none brighter than that of the garden near the family mansion, in which my mother gathered roses and violets and the early fruits.

"The loveliest symbols of thought and aspiration of sentiment and affection are flowers. There is no more deep and subtle mystery than that which conceals plant and shrub and tree in the seemingly simple structure of a seed.

"There is no more charming art and occupation than the cultivation of flowers and fruit bearing trees. There is no calling more innocent and conducive to human welfare than that of the horticulturist. The improvement and beautifying of public parks and grounds depends chiefly upon the gardener's art. The protection of fruit crops, involving vast pecuniary interests, and the best part of the food supply of great numbers of people is almost wholly dependent upon the studies, the experiments and practical wisdom of those whom this congress on horticulture represents.

"The trade and commerce in seeds, fruits, flowers and nursery products is of such magnitude and importance that it is justly regarded as one of the greatest business interests of the world. It is therefore most appropriate that arrangements have been made for a congress on horticulture among the many congresses of 1893.

"This congress has been organized by a committee of organization, of which Mr. J. C. Vaughan is chairman, assisted by a committee of co-operation of the American Seed Trade Association, of which Mr. W. Atlee Burpee is chairman, and a committee of co-operation of the Society of American Florists, of which Mr. E. G. Hill is chairman. Upon the nomination of these committees Mr. P. J. Berckmans has been appointed the presiding officer of the opening session of this congress.

"A glance at the program prepared shows that it is properly representative of the various interests involved. France, Germany, Denmark and many American states are represented by appropriate subjects and contributors. Other states and countries will doubtless take part in the discussion. In behalf of the World's Congress Auxiliary of the World's Columbian Exposition I welcome you to this Congress."

He then introduced Chairman J. C. Vaughan, who added further brief words of welcome, and who introduced Mr. P. J. Berckmans as the presiding officer for the general session.

Mr. Berckmans made an eloquent opening address and then took the chair.

The paper on "Technical Horticultural Education" by Prof. Wm. Trelease of the Missouri Botanical Garden was then read by that gentleman. It was an able and comprehensive essay and was discussed in a most interesting manner by Prof. Dr. L. Wittmack, who explained the systems in use in Germany, and Mr. Henri L. de Vilmorin, who described the workings of the French horticultural schools. Prof. L. H. Bailey followed and pointed out the need of different methods for America from those employed in European countries on account of the wide difference in conditions.

The essay upon "Improvement and care of public grounds; developing and conserving natural beauty," by William McMillan, superintendent of the parks of Buffalo, was an able paper and was most effectively delivered by the essayist. It was discussed by Mr. Rob't Craig.

Other essays delivered were on the "Relation of experiment stations to commercial horticulture," by Charles W. Garfield of Michigan, and on "Horticultural displays at future World's Fairs," by Prof. Dr. L. Wittmack of Germany, both of which were exceedingly valuable and bore evidence of much thought and care in their preparation.

Taken altogether the essays presented at the congress are of the very highest order and the printed report will be a most valuable document.

On Thursday morning Mr. Henri L. de Vilmorin of Paris read his essay on "Pedigree or grade races in horticulture" before the seedsmen's session. It is given in full in the seed trade department of this issue.

On Thursday evening at the florists' session Mr. Craig read his essay on "The past and present of floriculture" and Mr. Hill read his paper on "The future of floriculture." The latter is given in full below. Prof. Goodale failed to prepare the essay assigned to him on the past of floriculture, so Mr. Craig combined the past and present in his paper.

The Future of Floriculture.

BY E. G. HILL.

[*Read before the Florists' session of the Horticultural Congress, Chicago.*]

We have listened with deep interest to the eminent gentleman from Philadelphia on the past and present of floriculture: retrospection shows us the day of small beginnings, the troubles and difficulties that were overcome and the gradual growth of the art with the growth of the country; in the present we look back at the "Hill of Difficulty" which we have all climbed and delight to recount the triumphs of floriculture.

We have the past and the present as a gauge with which to measure the future of this our chosen profession.

We must remember that only a few decades ago the greater portion of country comprising the states of the Federal Union, as well as the British possessions north of us, was one vast wilderness; the pioneers of civilization on our western continent overcame difficulties mountain high, subdued the forest, bridged rivers, built cities; life was a struggle for existence made up of hardship, deprivation, suffering and toil. A better day has dawned, and with the increase in wealth and the growth in education a marvelous transition is taking place. If in the past things esthetic found no place they were simply crowded out by sheer physical necessity.

The word floriculture strictly defined, means the culture of flowers, but each day gives to it a wider significance; it means not only the growing of plants and the production of flowers, but it also implies the artistic arrangement of both either in the embellishment of grounds or the decoration of interiors; it implies a knowledge of the laws which govern plant life; an understanding of the soils from which they derive their sustenance; an acquaintance with their enemies and how to conquer them.

Before attempting to cast the horoscope of the future, let us ask what are our claims to greater growth and a higher development in floricultural art.

The cultivation of plants and the production of flowers have an elevating influence upon those engaged in the work, and also upon the communities where the work is carried on, and insensibly helps to a better code of ethics. Wonderful lessons are learned by a study of plant life, if only it is studied seriously; the artist is taught *form*, *arrangement* and *color*; pendent branches, trailing vines, glossy foliage, are suggestions of value to the decorator.

Flowers are daily becoming more indispensable in all the tender offices of friendship, hospitality and the home life. They grace the table of rich and poor, doing even more than the spotless linen or shining ware to make the meal something more than the mere satisfying of the appetite. When our friends meet good fortune, we send our congratulations in a bouquet of roses. When sorrow has crossed their path they read with dimmed eyes our sympathy in dewy flowers. We strew the bridal path with roses and lilies symbolic of our wishes for the bride, and the loved ones laid away to rest are covered with a pall of fragrant bloom. Flowers seldom blossom so sweetly and appropriately as in the sick room, bringing a message from the outer world to the one shut in, how often awakening in the convalescent his first interest in the old life which had so nearly slipped away from him.

Floriculture has a great future in America from the fact that the home is the center and citadel of our American civilization. The homes of the future will conserve and support our art. Until recent years the average American town has had very little architecture worth the name; but every season beautiful houses are taking the place of the ugly structures which were the outgrowth of the haste and straitened circumstances of their builders: these new and tasteful homes are embellished with tree and shrub and vine and plant, and as time adds to the beautiful effect produced, their educational in-

fluence will be felt by our people, who are not slow to learn the lesson of beauty when properly spread before them, and we venture to predict that both the cottage and the mansion of the next generation will furnish models of beauty as much by the correct use of floral decoration as by the increased beauty of the architecture.

The past ten years have seen our profession take a vast and rapid stride; the pessimists are not few who have predicted an equally sudden collapse, but we are positive that it was but a phase of rapid growth, which will become slower and steadier, but will lead us forward for generations to come. One of the greatest educational influences of the times is the work done by the horticultural press in so attractively leading their readers on to a higher standard of home adornment. In addition to the plants now in general use, we shall see from year to year an increasing demand for the more purely decorative plants, such as palms, dracænas, pandanus and crotons for interiors, while the newer trees and shrubs will attract increasing interest.

The time will come when the railway stations shall be beautiful from one end of the land to the other, furnishing object lessons for the million, the value of which can not be estimated: already some beautiful samples are shown on the leading lines. Cemetery superintendents are falling into line and the great city burial places have been transformed into Edens of beauty, furnishing models which nearly all the smaller towns are copying; contrast the old country burying ground with the modern cemetery and see what landscape art and floriculture have done, and this work is only in its infancy, with a wide outlook for the future.

Public parks and gardens are no longer regarded as luxuries and show places for great cities only, but are deemed absolute necessities for crowded populations, while every town governed by a council with any forethought or concern for the welfare of its future inhabitants, early in its history looks about for a choice bit of natural scenery and plenty of pure, cool spring water as a nucleus about which a few years later, the landscape gardener and the florist, at the bidding of the people shall create a bower of beauty of tree and vine and flowering plant.

There ought to be no better examples of neatness and of floricultural embellishment than in the florists' establishments of our country, both wholesale and retail. The successful florist of the future must be an artist as well as a mere grower of plants; our profession is both an art and a science. Being able to grow plants *well* is, of course, fundamental in all stages of our history, but in coming years, there must be added to this artistic insight into the fitness of things, which will guide the florist in his combination of colors, which will prevent his arrangements from becoming grotesque in their stiff formality, which will banish the hideous floral "combination design," and show in its place forms of simplicity and beauty only; which will make his boxes of cut bloom when ready for delivering "a perfect gem in a perfect setting."

The artistic florist will make his place a model which the average customer may safely copy, not as now so often seen an aggregation of glass houses, workshops, dirt piles, disorder and anything but a place of floral beauty. Of course with the majority of us, the greenhouse is a manufactory, where coal and water and steam and soil are used in converting raw material into forms of beauty, but a careful forethought and some common sense planning by a man who is really educated up to the love of the orderly and the beautiful, will find a way to keep the dust and grime and litter in subjection, and present to his visiting customers only the refined product in its most beautiful arrangement. Where we have now only a few establishments such as found at Short Hills, Floral Park, Mount Hope Nurseries, West Chester, Pa., and other places in the country, twenty-five years hence similar examples will be found dotted over every section of our union.

The scientific florist of the future will have undergone a technical training in an institution where the knowledge of the many gained by personal experience is at his hand classified and ready for use, needing only to be verified as he goes about his work from day to day; he will not go groping in the dark as to the proper constituents of certain soils for given plants nor for the proper remedies for certain diseases, nor for most destructive agencies with which to combat injurious insects.

What floriculture will be in the future depends largely upon the classified knowledge at the ready command of the future florists, and his art in using it, and also upon his artistic training and the education of the heart. Technical schools will do for floriculture what the industrial schools are doing for workers in metals, fabrics and woods. Such institutions already have a footing in Europe, and their influence is being felt through the young men of the profession. We in this country shall hail with delight every effort looking towards the founding of such schools. The men who elevate their profession are invariably students, whether in or out of school, men who by research and study solve problems and make rough paths straight. The engineer plans the outline of tremendous undertakings in the quiet of his study, working out by compass and rule its parts and construction, and later on his bridge spans the Mississippi; as our friend Mr. Whittle of Albany has suggested there is no reason why theory and practice need be divorced in floriculture. I can do no better than quote his admirable words at our fourth convention: "When will the world know horticulture to be what it is? A pursuit that requires of its workers constant forethought and continual study. When gardeners themselves are willing to lift the class by the grand power of education from the rank of mere artisans. When by the careful and laborious investigation of the secrets of nature we can advance theories and cite facts—not till then shall we have our place in the world of thought."

It is estimated that the twentieth century will see over a hundred millions of people north of the Rio Grande; grant three-tenths of them a love for flowers, and do you see what the floriculture of the future must become. The future shall bring forth the wondrous product of the hybridizer; new varieties of plants suited to our climate and requirements shall be produced. Great possibilities are in store for us in this direction; America will in the near future produce its Lemoine, Guillot and Veitch, let no pessimist discourage, but with quickened step let us march hopefully forward to that larger and brighter future which awaits American floriculture.

Miscellaneous Seasonable Hints.

About the 20th of this month is the best time to sow pansy seed for spring sales. If sown much earlier they get leggy by spring, and if later by a few weeks they are rather small to pass through the winter. A frame with the sash raised back and front and a heavy shade on is the best place to sow them. It takes longer to sow in drills, but it pays; you can cover them better, and you will get far more plants to the ounce. I use a rod one inch square and when the distance between rows is marked or guessed about two inches press one angle of the rod half an inch into the finely prepared soil. That is a sufficient drill, and cover just enough to hide the seeds. When well up remove the sash and keep them well watered if it is a dry time. I have seen red spider attack a bed of seedling pansies and nearly ruin them before they were discovered. A good syringing every evening is all you can do to prevent this. It pays to take time and care with your pansy beds, for the seed of a good strain is very expensive and it doesn't pay to grow any other. Those who grow many thousands can hardly afford to cover them all winter with glass; they usually plant them in the field and at the approach of hard frost cover them with straw, or what is excellent, hemlock boughs. You want a few thousand early and fine that will sell at seventy-five cents per dozen. These should be wintered in frames. Transplant from seed bed to the frames five or six inches apart between the plants in the richest soil. When cold weather is expected cover with glazed sash. If frozen for months and covered with sash no harm will be done, but whenever a warm spell comes raise the sash.

If you are short of some varieties of geraniums you can begin to propagate them now. One advantage in doing this now is you get a good crop of cuttings, which will make strong early plants, and the old plants growing out of doors will break out and give another fine crop of cuttings by the end of September. Some men put all their cuttings at once into 2 or 2½-inch pots. When the weather is cool this is the most labor-saving way of doing it and I think makes the most sturdy plants, but if a very hot spell comes on you are likely to lose a large percentage of the cuttings, and therefore in hot weather I prefer to put them in a shaded but airy house in sand and keep moderately moist.

Look out that your sweet stevia does not draw up by being too close together; if they are in 5-inch now give them a 6-inch and stop them for the last time, and plunge them with plenty of room round them.

Poinsettias must not be left out and exposed to the cold nights after the end of this month. They have done well with us this year, as there has been no heavy rain storms to drown them. The great trouble with poinsettias with most people is the loss of their leaves, and then they are very unsightly, however large the bracts are. If the pots are very full of roots they must have a shift to carry them along in a healthy shape, for they have four months yet before the bracts are fully developed. If the cut flowers only are needed a much easier way to produce good flowers with fine foliage is to knock them out of the pots and plant in five or six inches of soil on a bench. Less care is needed and the flowers will be fine.

The old calla bulbs that flowered all last winter and have been resting outside will want attention now. The tops should be dried up by this time. Shake every bit of old soil off and look out for the little offsets, the size of peas and larger. If you want to increase your

stock you can make flowering roots of these the following year. For potting the old roots use a heavy, coarse loam, with a third of rotten cow manure, and add a little old lime rubbish to it. If well drained the calla will take any amount of water, so drain well. A few lumps of charcoal covered with green moss will do. Don't use sphagnum for any drainage; it soon rots and is useless for the purpose. After repotting the old bulbs in 5 or 6-inch, according to their size, I place them outside till end of September; they grow stockier and do better than if drawn up under glass.

The mignonette you sowed last month for winter bloom will be well up now. Thin out each little clump to three or four of the strongest plants, but not to one, for a grasshopper or some other friend may come along and eat that one. When they are beyond the reach of such an accident leave only one plant.

Buffalo, N. Y., Aug. 14. WM. SCOTT.



Seasonable Hints.

There are probably several diseases popularly known as spot. Scientifically the study is very interesting and we are thankful to science for all the aid and light we can get on the subject. Practically there is little difference to the grower whether spot defines a particular disease or a group. In fact all the fungoid diseases may be classed under one head and the same preventive measures taken for all—the liberal use of copper compounds both in the field and under glass. To let any of them become masters of the situation would be disastrous.

Rust seems to be of more recent origin. At least we have heard but little of it until within a few years. There has been a great deal of unnecessary anxiety in regard to it. While all possible measures should be taken to guard against it, it should be regarded in the same light as many other troublesome things— a pretty bad nuisance to be fought, but not to be feared. Do not rest in the false security of isolation and quarantine. The spores will travel for miles through the air, and by this means will become disseminated over the entire country as spot now is. We have in mind two cases of rust occuring by that means. Neither of the parties had ever received any rusty stock. One place was a half mile from any neighbor who had any rust. The other was fully five miles from any infected place, and the rust was found on small plants at two different times and in different places in the houses. In both cases the plants were destroyed.

For all fungoid diseases then we would recommend the application of fungicides at intervals, applied to the field plants if necessary, and by all means in the houses, commencing as soon as the plants are on the benches. It is not our object to advertise these goods. Any preparation of sulphate of copper ground into a fine powder is good, and should be applied with a bellows. For the houses at least we prefer the powder as easier of application. Liquid may be better for the field. Ammonia sulphate of copper is the best liquid preparation. One part of saturated solution to one hundred of water. Fine sulphur is an excellent fungicide and is often used together with copper. Sulphide of potassium or liver of sulphur dissolved in water is highly recommended for spot. We think with due diligence and the proper use of these remedies or preventives no fear need be entertained that spot, rust or any other fungus growth will do the carnation permanent harm.

There is a fungus which affects the roots of the carnation, doing considerable damage at times. The top becomes yellow and finally dies. It mostly occurs in the field, and will spread from plant to plant. The ordinary fungicides fail to reach the evil. Whether all the plants that show a yellow and sickly appearance are so from this cause or not we cannot say, but the safest plan is to destroy all such stock no matter how valuable.

"Damping off" is a name familiarly applied to what may be a condition or a disease, we cannot positively say which. We do know, however, that we lose more plants from this cause than all other causes combined. It attacks the plants in the cutting bench and in all other stages to maturity, and after they are planted on the benches. We lose numbers of plants in this manner in the field, and far more of a wet season than during a dry one. The bark at the surface of the ground is first affected, and the disease, if such it is, works in and around the stem, girdling the plants, which die in consequence, although both above and below the injury they seem perfectly healthy. The strongest and most robust plants often suffer the most. The weak and sickly generally escape entirely. Some varieties are more liable to suffer than others. Two years ago we lost probably two-thirds of our Portias in the field from this cause, although the stock was very healthy in other respects. We lost very few, however, after removal to the house, and the same stock has been very free from the disease since. Grubs of the May beetle will often cut or girdle the plant below the surface, and injuries to the bark from careless hoeing and harrowing will often destroy the plant. But these cases are easily distinguished from what we are pleased to call "damping off." We have not been able to divine the cause, and we believe there is room here for original investigation. We are inclined to think the trouble is of fungoid origin, although microscopists to whom we have submitted the diseased plants have failed to detect any signs of fungus growth. We are having an experience at the present time that would point to the fungus of the cutting bench as lying at the root of the evil. In the latter part of the winter we potted off a fine lot of healthy plants from the cutting bench. These were set on a propagating table where fungus had been very bad. In a short time they began to damp off badly over the sand where the fungus had been the worst. At the present time these plants are damping off badly in the field. It looks very much as if the fungus had entered the balls and had been carried to the field, where it is finishing its work of destruction. Whether all cases of damping off can be traced to the fungus of the cutting bench we cannot say; but the mycelium of this fungus is often present when not suspected, and could be easily carried to the field in the manner indicated. We don't pretend to say we are right in this surmise, but the whole matter is clouded in mystery, and a good subject for our scientific friends to unravel.

Avondale, Pa. W. R. SHELMIRE.

The Seed Trade

The Seed Trade Convention.

The eleventh annual meeting of the American Seed Trade Association convened in the Leland Hotel, Chicago, Monday, August 14, with about fifty members in attendance and President J. C. Vaughan in the chair. The eastern states were rather lightly represented but the west and southwest more than made good the shortage and the sessions were on the whole very satisfactory. Mr. H. L. de Vilmorin arrived on Tuesday and gave the convention two or three very interesting talks. Fourteen new members were admitted.

Among those present were the following: H. L. de Vilmorin, Paris, France; W. Atlee Burpee, Philadelphia; J. C. Vaughan, Chicago; Irwin B. Clark, Buffalo; C. L. Allen, Floral Park, N. Y.; W. W. Barnard, Chicago; Alfred J. Brown, Grand Rapids, Mich.; D. I. Bushnell, St. Louis; John A. Bruce, Hamilton, Ont.; A. N. Clark, Milford, Conn.; E. B. Clark, Milford, Conn; J. L. Childs, Floral Park, N. Y.; S. F. Willard, Wethersfield, Conn.; C. W. Crossman, Rochester, N. Y.; Adam Currie, Milwaukee; Chas. Dickinson, Chicago; J. F. Dickmann, St. Louis; A. L. Don, New York; Frank T. Emerson, Omaha; W. H. Grennell, Pierrepont Manor, N. Y.; E. T. Pierce and E. N. Page, Des Moines, Ia.; S. F. Leonard, Chicago; Robert Livingston, Columbus O.; R. Maitre, New Orleans; Albert McCullough, Cincinnati; Wm. Meggatt, Wethersfield, Conn.; F. H. Eberling, Syracuse, N. Y.; J. G. Peppard, Kansas City; J. C. Robinson, Waterloo, Neb.; W. Langbridge, Boston; Mr. Trumbull, Kansas City; T. W. Wood & Sons, Richmond, Va.; S. D. Woodruff & Sons, Orange, Conn.; C. B. Whitnall, Milwaukee; Samuel Wilson, Mechanicsville, Pa.; Fred S. Plant, St. Louis; J. M. Lupton, Mattituck, N. Y.; Manglesdorf Bros. Co., Atchison, Kan.

The sessions closed Tuesday evening with the election of officers as follows: President, W. Atlee Burpee; 1st Vice-President, D. I. Bushnell; 2nd Vice-President, S. F. Leonard; Secretary and Treasurer, A. L. Don. It is believed that the next session of the association will be held in Toronto.

Pedigree or Grade Races in Horticulture.

BY HENRI L. DE VILMORIN, PARIS.

[*Read before the Seedsmen's session of the World's Fair Horticultural Congress, Chicago.*]

The subject on which I intend to address you may seem at first sight to be a rather special and limited one. I trust, however, that upon consideration you will see with me that it is one of great importance and of the deepest interest. I claim for it a constant and all-powerful action in the life of garden plants when we are seeking the most improved races.

It is a well established fact that the life work of plants is to make the mineral wealth of the earth fitted for the use of animals and of man. Now it is clear that the plant's work can be done well or ill according to its more or less perfect fitness to its functions. It is, moreover, within the power of man to consider, and to some extent control, the efficiency of plants as regard to their work, to select and to increase the best only, and by continued selection to develop more and more the good qualities of each kind. In this way man raises races and varieties of plants which do their work best and quickest. Heredity is the lever by which the results of the study and care and perseverance of the raiser are fixed, so to

say, into the most valuable of the plants grown for man's use or delight. We have no more powerful means of improvement of vegetable forms. All the care, food and protection given to plants may make them larger and finer, but only selection among many of the same kind with the help of heredity can fashion an enduring race of plants with special good qualities for our farms, garden or orchards. Chance seeding may yield some very good finds, as sometimes a good hit is made by shooting at random. But no good marksman will, even after the luckiest of chance shots, dispense with the use of his eyes and judgment for the rest of the day. In the same way no experienced raiser will trust to chance in the choice of the seed from which he expects some precious results. He will gather it from one plant seen among many and will have good reasons to show for his choice.

It is plain that selection was not at all times done with such thought and skill as it is now; but ever since plants have been cultivated an evident improvement has been going on for our benefit, and fixed and valuable races of field plants, vegetables, flowers and fruits were known to the oldest nations and are mentioned by the oldest writers. Since the settlement of America a new field was opened for good work, which yielded a splendid crop of honor and profit to American as well as to European cultivators, and through them to their respective countries.

Let anyone who doubts the high value of selection look at our fine races of cabbages, kales, cauliflowers, kohlrabi and rutabaga and compare them with the wild cabbage of our western shores of Europe; let him compare our fine garden beets and our mangels to the wild beet of the Mediterranean shores; let him compare the tomatoes and potatoes of to-day with the wild South American plants and he will see proof that only human thought and skill have brought about such wonderful changes—many of them in our own day, many, on the other hand, some hundreds of years in existence. In the tomato and potato we have two distinct examples of garden races, viz., (1) those which are increased from seeds, as the tomato, and (2) those which are increased by division of a plant, as the potato.

Even where we divide the plant itself heredity is of some importance, as new varieties can be raised from seed only, and it is by no means indifferent to gather seeds meant for the purpose from one variety of potato or from another. Distinct groups of races are seen in the potato, as the Rose tribe, to which the Early Rose, Late Rose and many more can be referred. Just in the same way a nurseryman who sows pear pips in search of new varieties will take good care to take them from some old sort, the parentage of which gives good hopes of success. It follows then that even where increase by division is the rule the knowledge of the quality and history of a plant may be of essential importance.

WHAT HEREDITY IS.

Where selection is done with skill and care the improvement of many kinds of cultivated plants effected by its means is invaluable. The large pansies, the huge hybrid gladioli, the large flowered cannas were all brought from the state of small flowers to their present excellence in our own day by careful observers, who, watching every variation and keeping an exact record of the descent of all their plants, turn to the best account the wonderful action of heredity.

That plants are endowed with the power of changing to some extent under altered and varying conditions no one will deny who knows even a little natural history. Such changes will occur in wild nature as well as under cultivation, and by the action of heredity will be transmitted more or less faithfully to the next generation.

But an all-important fact must be recognized and remembered. It is that in the wild state only such variations have a chance of enduring as give the plant in which they occur some advantage in its life. Many variations appear every year which soon disappear, because they are a loss, not a gain to the plant. Suppose in the wild state a potato plant with short



W. ATLEE BURPEE, PRESIDENT-ELECT OF THE AM SEED TRADE ASSOCIATION.

stems and late sprouting tubers in a mass at the base of the stem. Such a plant would not have any chance against rank growing and early shooting varieties and it would soon perish. Still, some such characters belong to some of our best potatoes. This is owing to the action of man, who throws his power into the balance when cultivating plants which are useful or pleasant to him, and who gives the weakest plant, if it is for some reason a favorite with him, all the advantage he can to make it thrive and answer his purpose. Most of the variations induced in our garden plants are not in favor of the plant if in a "free fight" with its kind in nature. All our improved roots, as carrots, turnips, beets, make an early and succulent growth for our own benefit, but not at all for their own good. If left to their fate to struggle with their own wild forms they would soon have to take a "back seat" and very likely soon perish. It follows then that varieties improved from man's point of view must receive kind treatment and richer food than wild forms of the same plant. The cultivated plant, like the domesticated animal, yields in a measure its powers of self defence to adapt itself to our service. Man must in return provide for its safety and nourishment. In the improvement of plants the action of man, much like influences which act on plants in the wild state, only brings about slow and gradual changes, often scarcely noticeable at first. But if the efforts towards the desired end be kept on steadily the changes will soon become greater and greater and the last stages of the improvement will become much more rapid than the first ones.

I may relate here in a few words an unpublished experiment which I have been conducting for more than twenty years, from 1872 to the present year. It has consisted in cultivating one of our parsley-worts (Anthriscus sylvestris), a European weed, in order to change its slender and much forked roots into fleshy, straight and clean roots, say like those of the parsnip. Among the first batch of roots raised from wild seeds a dozen were selected with a tendency in their roots to larger and straighter bodies. Each root was planted separately and its seed harvested separately. Of the dozen lots obtained eight or nine were discarded at once and roots were selected only in such lots as exhibited some trace of variation. Again a dozen roots or so were chosen, a drawing made of each root, which was afterwards planted separately. I have sketches of all the roots selected, so that it is possible to follow all the stages of variation of each plant living at this day. For the first ten years the changes were slight, but now they are more and more marked with every generation, and in some of the lots the straight and smooth roots are the most numerous.

My object was not to create a new vegetable, as the roots of Anthriscus sylvestris have such a strong taste of camphor as to be quite uneatable, but simply to show that careful and continuous selection could transform a wild plant in years that do not equal a quarter of the span of many human lives. Like results had been shown by my grandfather with the wild carrot, only its results were open to controversy as to possible crosses between garden varieties and the wild strain. No such objection can be raised in the case of my wood parsley-wort.

HOW IT WORKS.

Although heredity is an ever-present and active agent in the transmission of qualities and characteristics in organized beings, its mode of action is not so simple as at a first glance it might seem to be. That like breeds like is a commonly admitted fact, but there like must be taken in a rather broad sense, and the fact that some differences may occur between the parent and the offspring is at the bottom of all improvement of plants by selection.

A being born from one or two of the same kind will be like his parent or parents. But if the parents, although of one kind, were not exactly like one another how will the descendant look? Will it take after the one or alter the other, or blend the features of both? And again, if each of the parents comes from two different ancestors which of the four will take the lead in the form and character of the new being?

The network of lines of attraction which would induce a living organism, plant or animal, to be like every one of its ancestors can scarcely be unravelled. Still, the consideration of the various influences acting on an incipient organism can be pretty accurately summed up in direct heredity, which tends to make the new plant or animal to resemble its immediate progenitors, and atavism, which induces it to be like the mass of its removed ancestors. I omit for the present the idiosyncrasy, which is the tendency in the new plant to combine the inherited characteristics in some special manner adapted to its own particular wants. If the parent was like its progenitors then all the influences work the same way, and there is every chance of perfect fixity in the series of beings born in succession. But

if the progenitors for one or more generations has swerved from the characteristics of the ancestors heredity and atavism will come into conflict, and the outcome can not be predicted surely.

Some hints on probabilities may be had from an experiment conducted by my father on two varieties of the Lupinus hirsutus, the one with blue and the other with pink flowers. The conditions were in this case very well adapted to the study of the action of heredity, the flowers being in the lupine not only hermaphrodite, but also cleistogamous, so that a seed is the produce of only one bloom of one plant. Two lots of seeds were sown to begin with, some of the blue and some of the pink strain. Most plants turned out true, still a few with pink flowers were found in the lot of blue, and conversely some blue among the pink ones.

In the following year seeds of the true plants were sown again, and along with them seeds of the "rogues" found in each lot. In the latter the greater proportion of plants followed the color of the parent plant, but a great many more showed the alternative color than was the case in the original lots. Seed from blue and pink flowered plants of the third generation were sown again, every possible combination in the relations of the ancestors as to color and distance being tried as much as possible and the number of blue and pink flowered plants being carefully noted in each case, and the experiment was carried on for several years. Though no exact rules can be arrived at from experiments with living things from the tabulated results of the experiment the following inferences can be drawn:

1. The tendency to resemble its parents is generally the strongest in any plant.

2. But it is notably impaired if coming into conflict with the tendency to resemble the bulk of the ancestors.

3. This latter tendency (called atavism) is constant, though not very strong, and scarcely becomes impaired by a series of generations passing by without a reversion to the ancestral type having taken place.

4. On the contrary, the tendency to resemble a near progenitor (two or three generations only distant) very soon becomes obliterated if the said progenitor be different from the bulk of the ancestors. From this it will be seen that choice new races can be raised quickest and with the smallest amount of labor where all needless conflict in the hereditary powers is avoided.

HOW THE ACTION OF HEREDITY CAN BEST BE TURNED TO ACCOUNT.

But it may be rightly remarked here that it must be shown how variations can be obtained before we are shown how they can be made permanent.

It is admitted by all observers that plants, being immovably fixed in the ground by their roots, and consequently prevented from seeking favorable and from avoiding untoward circumstances, are endowed by way of compensation with the power to adapt themselves to some extent to different conditions as to soil and climate. The manner in which plants so adapt themselves is most admirable, but it is not here the place nor the time to consider it. Suffice it to say that the changes in the size, position and anatomy of their various organs appear to be much called up by than produced directly by the changed conditions. The important point in the present case is that variations in the special characteristics of a cultivated race may and do occur occasionally, and that such variations can be made permanent and still magnified by the process of selection. To wait for them to appear among seedlings is the simplest and most ordinary process. But their appearance can be hastened and made more probable by the selection of seeds from a plant showing already some trace of variation, or by means of a cross with some other variety of the same species. As soon as a distinct variation has made its appearance the work of selection begins. The essential thing is to secure a deviation from the old type of the plant under experiment. It matters little whether such deviation takes place in the desired direction or not. Some authors even advise the experimenter to look for any change at the first stage, and at the next one for the greatest possible deviation from the first change in any direction except a reversion to the old type. This may be useful as far as the appearance of new forms is concerned, but if adhered to too long it might make the fixation of the new forms rather difficult and slow by breeding continuity out of the new race.

Whatever the cause of the original variation was, action of the plant's own tendency to vary, or some external cause, or a cross of pollen, the next thing to be done is to make the variation permanent by selection. This is sometimes very easy, the new form becoming at once perfectly true and fixed. A case in point occurred several years ago in my trial grounds at Verrieres. One plant of Clarkia elegans with pure white double flowers was discovered among a number of the same species with double purple flowers. It was singled out of the seed sown the next year, when every plant raised gave only double white blooms, and it has never since been known to give any but pure white flowers. If such cases were of common occurrence they would make the task of the breeder of new varieties a very easy one. Unfortunately, they are very rare exceptions, and the tendency of new seedling forms is rather to revert frequently and rapidly to the original type. Great attention and vigilance must be exerted to counterbalance this tendency to reversion. The best and most useful plan is not to mix together the seeds of the selected plants in case several were singled out, but to sow the seed of each separately, as the several plants selected may be endowed in a very unequal degree with the power of transmitting their own characteristics to their progeny. Now the principal object and the principal effect of selection if well conducted is to effect a complete transmission of the qualities we seek of any given race. Its aim must be in consequence to eliminate any plant which is not fit to reproduce itself "true."

It is often observed that in such cases when the seeds of several plants selected in the same batch of seedlings are sown side by side and separately the one will come up true with only a very few or no "rogues" at all, while others will give a very medley of plants. If further selection be made only from the lot that came up true the new variety may be considered as already fixed; whereas many years of cultivation and "roguing" may be required to bring it to anything like purity if progenitors be taken from the lots in which numerous variations occurred. Fixity of character is of great importance to garden and field plants grown from seed, and the tendency to fixity should be inbred in plants just as the tendency to earliness or to hardiness. The power of transmitting their own qualities to their progeny is just as hereditary as any other qualification, and no effort should be spared to make it one of the points of a new race. Breeding from single progenitors appears so far to be the safest and shortest way to the proposed end.

Cross-breeding greatly increases the chance of wide variation, but it makes the task of fixation more difficult. It, however, gives the raiser the only means in his possession to unite in one the qualities of two different plants while discarding their weak points. All the different qualities of the two parents seem to unite in the most varied combinations in the cross-bred products. In this way plants are often found which inherit most of the good points of both parents, while some others sum up the defects of both. This I repeatedly observed in rearing cross-bred wheats. An occurrence not unfrequently observed in cross-bred plants is that some character belonging to one of the parents is magnified in the progeny. For an instance Mr. Charles Naudin observed in crossing daturas that the cross of a slightly prickly variety with another kind which had smooth stems resulted in the raising of a decidedly prickly hybrid.

In framing the character of the progeny the action of each parent is often very unequal, according to the power of each in transmitting its characters. The one that is better endowed in that respect stamps its features more firmly on the cross-bred plant. Discussions have arisen on the influence of the male and of the female progenitor on a cross. I believe that the stronger organism of the two, the one rather which is better endowed with the power to transmit its characters, will predominate in the progeny whether it comes from the male or the female parent.

One trait that makes the fixation of cross-bred plants difficult is in some characters of both parents breaking out in different parts of one and the same plant, instead of being, as we could wish, blended together. In cross-bred peas, for instance, which were raised from a white-seeded and a green-seeded parent, it often occurs that at the second or third generation pods are produced which contain mixed white and green seeds. In the same manner round and wrinkled seeds are found in the same pod. This is a great difficulty and an almost sure sign of further variation, as a plant showing such breaks can not be depended upon to give rise to a uniform progeny. In many similar instances recorded in my books of experiments the green peas gave plants with white seeds and the white ones with green. You can scarcely expect a plant which is not constant in its own parts to be constant in its progeny.

The unity in character of any single plant is the main factor in the work of pedigree or grade breeding, and I wish to lay especial stress on that point, which I think of paramount importance. The consideration of the qualities or defects of a plant taken as a whole, not of minor parts, should guide the raiser in his work. Of this I am convinced from experience, and I may be permitted to give a few facts in support of my opinion.

The advice is often given in horticultural books to take the seeds from some particular portion of the seed-bearing plant in order to secure a better result. In German stocks, for instance, it is a common belief that the seeds of pods taken from the middle or from the base of the main stem will give a larger proportion of plants with double flowers than if taken from the top of the same or from side shoots. I many times tested the idea and it always proved a fallacy. All the pods on a plant give an almost exactly equal proportion of plants with



JAPANESE FLORAL ARRANGEMENTS.

double and single flowers, no matter what part of the plant they may be gathered from.

A real difference is in the percentage of single and double flowers from various plants of the same variety. In this way very wide differences sometimes occur, but not in the case of seeds taken from various parts of the same plant. I tried an experiment with seeds of Chrysanthemum carinatum gathered on double, single and semi-double heads, all growing on one plant, and found no difference whatever in the proportion of single and double flowered plants. In striped verbenas an unequal distribution of the color is often noticed; some heads are pure white, some of a self-color, and most are marked with colored stripes on white ground. I had seeds taken severally from all and tested alongside one another. The result was the same. All the seeds from one plant, whatever the color of the flower that bore them, gave the same proportion of plain and variegated flowers. No more proof, I think, need be given that selection, which is all-important in the case of seeds from different plants, is of no importance as regards the different parts of any one plant on which seeds may be borne.

No limit can be fixed as to the improvements which may be expected from care, thought and selection. The gains of the ast dozen years may surely be taken as the forerunners of better things. It is clear that no very important additions to our cultivated plants are to be expected now from the discovery of new species, but an unlimited field opens before the raiser of new and improved forms in all our garden flowers and in fruits and vegetables. The recent success of European raisers of new begonias, of hybrid gladioli and of large flowered cannas are equalled by the gains of the American raisers of chrysanthemums, of garden beets and of tomatoes. I may add by way of conclusion that much good may be expected from the more and more frequent exchange of strains between the old and the new world. Such complete changes of soil and of climate frequently give rise to variation, and so either by subtle changes one cannot see the cause of or by well considered crosses, American and European varieties of our useful or beautiful plants may give rise in their turn to more numerous and useful variations than would have occurred had these races been confined exclusively to the country of their origin.

Japanese Floral Arrangements.

The accompanying engraving is from a photograph of flowers arranged in the typical Japanese style by Mr. Shibota Tomiyami, a nurseryman of Kobe, Japan, now at the World's Fair.

The flowers used were cherry and peach blossoms, camellias, Monton pæonias, chrysanthemums, irises and aspidistra leaves.

Lest our readers be stunned with the idea of having all these flowers available at one time we shall have to say that some of them were artificial.

The upright flower holders are of bamboo and are of the style used by the professional Japanese florists. The arrangement followed is also that of the professional florist of Japan.

Philadelphia.

The convention of 1893 is a thing of the past, and considering the distance from the large horticultural centres that are commercially interested the attendance was very good. Chairman John Westcott of the committee of arrangements had to secure a larger car, so as to better accomodate the out of town brethren who did not make their intentions known until almost train time. Quite a number of the boys were at the station to see that the delegates got off in good shape. A safe journey and a good time was wished to everybody as the train pulled out and Captain Anderson was admonished to bring that cup back at all hazards. Alas! alas! how cruel is fate. At Harrisburg the delegation from

Lancaster and Mr. Dillon of Bloomsburg were taken as well as Messrs. Weidy and Seidewitz of Baltimore, and a delegation from Washington composed of President W. R. Smith with Messrs. Gude, Clark and several others as a body guard. To add grace to the party some of the members brought their wives and daughters along, there being seven ladies in all.

Everybody was merry and notwithstanding the dust and the heat seemed to enjoy the trip very much. A number of the boys found the smoking room a very attractive place, and judging from the close attention paid to the various phases of the game, we mean subject, under discussion, we feel sure their deliberations must have been profitable to at least some of them.

At Indianapolis, Gurney Hill, and Mr. Evans of ventilator fame were taken aboard. Finally exactly on time our train steamed into the depot at St. Louis and we were given a hearty hand shake and welcome by the reception committee, among them being John M. Hudson, who seemed very glad to see his old Philadelphia friends, and was only sorry that more of them were not along.

St. Louis is a very fine city, the streets are wide and well paved, the street car system, Trolley and cable is admirable, as fine as any we have ever seen, while the public buildings, large office structures and stores, are modern and imposing structures. Our stay between the meetings of the convention was made as pleasant as possible by the members of the local club, who were untiring in their efforts give the visitors a good time. The carriage ride through the parks and suburbs, the visit to the beautiful Shaw gardens and elegant collation were very much enjoyed, while the Anheuser-Busch reception was pronounced a rousing success. The trip to Brownhurst on Saturday was also a very delightful occasion.

There was also another event to which some of the members of the various florists clubs of the country had been invited to take part. A certain few from New York, Philadelphia, and Chicago joined the St. Louis boys and entered into a bowling contest on the alleys of the Pastime Athletic Club. It looked before this game as if the limit would be reached by some of the bowlers, as the pins were only ten inches apart, but ten pins is a very deceptive game, and our own Wm. K. Harris was the only man to come near the three hundred mark, making 240 pins in his first game and thereby bringing one prize to Philadelphia a very pretty scarf pin for the highest individual score. In this game Mr. Harris had seven in the first frame and then made eight straight strikes.

In the first game New York defeated us by only ten pins, but in the next two we were nowhere; the head pin could not be located with any certainty and New York won as they pleased. If all had done as well as Captain Anderson and Mr. Harris, the latter making within four pins of the second man in the total of the three games, the cup, like the cat in the song, would have come back. Still it is not gone forever; it is simply loaned, and when that case is good and ready it may yet grace the club room along with the other trophies. During the game luncheon was provided for the bowlers and the visitors and a quartette of members of the Pastime Athletic Club played a match of handball to show the visitors the game.

On Saturday night there was a general illumination by the Fall Festivities Association. All along the sidewalks of the principal streets there are arches of gas lights with opal shades, and at the intersections of the streets there are large arches of gas and electric lights. The effect when these arches were lit up was brilliant in the extreme, and the streets were thronged with people attracted by the display. We understand they are lighted every evening after the opening of the Exposition each fall. While the illumination was still on a start was made for the depot and at 9:10, after hand shaking with a number of the club who had come down to see us off, the train pulled out and a visit which will ever be full of pleasant remembrances was over. K.

Eryngium Amethystinum.

A flower spike of the true variety of this plant was recently received from Rea Brothers, Norwood, Mass. It is remarkable for the metallic blue tint of the flower heads and stem. The senders inform us that the variety generally distributed as E. amethystinum is either E. planum or more rarely E. alpinum. On well established plants the flower stems reach a height of four feet.

ATHENS, GA.—The eighteenth annual session of the State Horticultural Society opened here August 2. There was a good exhibition of fruit and vegetables.

ATLANTIC, IOWA.—The Silas Wilson Co. has been incorporated here, with a capital stock of $150,000. They will do a general nursery business on a large scale.

WEST CHESTER, PA.—The greenhouses belonging to Hoopes Bros. & Thomas were seriously damaged by fire August 14, entailing considerable loss.

THE TRANSACTIONS OF THE Massachusetts Horticultural Society for 1893, (Part I) recently received gives the proceedings for the first three months of this year, including a number of essays.

PITTSBURG.—The Pittsburg and Allegheny Florists' and Gardeners' Club had their annual picnic at Ross Grove last Monday, and a most enjoyable time was had by all who participated.

DO YOU WANT a list of the leading park superintendents of America? You will find such a list in our trade directory and reference book.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By an experienced florist and gardener. Address E. HAY, care Mrs. Josephsen, 200 No. Green St., Chicago.

SITUATION WANTED—As foreman in commercial place; age 30; married. First-class references. Address ROSEN, box 61, Providence, R. I.

SITUATION WANTED—By young man, as gardener on private place; can come with good reference. Address CHAS. RISCH, 50 Sherman St., Chicago.

SITUATION WANTED—By florist, in growing roses, carnations, palms, ferns, orchids, smilax and forcing bulbs; single; 18 years experience. Address L M. care American Florist, Chicago.

SITUATION WANTED—By a young married man, small family, either private or commercial place; 10 years experience; can give first class references. Address C. O. ERICKSON, Bowmanville, Ill.

SITUATION WANTED—By first class florist, commercial or private, German, married, small family; 15 years experience in all branches; good references. Address A R, care American Florist.

SITUATION WANTED—By a good florist as foreman or assistant—commercial place preferred. Many years' experience in the business. Good recommendations. Address W F, care Am. Florist.

SITUATION WANTED—By a young florist, 7 years experience in growing plants and cut flowers, industrious, competent, sober; best of reference. Address L. G. BARBER, care E. Yd. Paint shop, Ft. Wayne, Ind.

SITUATION WANTED—By first class German florist and landscape gardener, commercial or private; 22 years experience; married, small family; age 36; best of references Address C B, care American Florist. Chicago.

SITUATION WANTED—By a first class florist, who understands the business thoroughly in all its branches; 11 years experience; good references; Scandinavian; single. Address JOHN LANG, Lakewood Greenhouses, Minneapolis, Minn.

SITUATION WANTED—By a first class florist and gardener as foreman or head gardener, commercial place preferred; 30 years experience in all branches; Austrian; married, no family. Address T. A. KASCHKA, 315 8th St., N. W., Washington, D. C.

SITUATION WANTED—As foreman and salesman, age 29; good grower and forcer, also first class maker-up, and of good address; 15 years practical experience in England and Germany; speaks English and German fluently; good testimonials. Address G C, Box 623, New Rochelle, N. Y.

SITUATION WANTED—By a single man, as foreman and propagator for a commercial place; have had 7 years experience in same; 15 years experience in growing plants and cut flowers; can give best of reference. Address GARDENER, care American Florist.

SITUATION WANTED—By single, young, practical florist and gardener; wide experience in both branches. Also in mushroom culture, fruit growing and landscape work. Life experience. Last 5 yenrs as head florist and gardener in large public institution. Not afraid of work. Best of references. Prefer a private place. Address H. SWABY, box 56, Clifton, Green Co., O.

WANTED—A Hitchings or Wilks boiler, medium size. PFUND BROS., Oak Park, Ill.

WANTED—A handy man to take charge of mushroom cellars. Inquire for particulars at once. Address HERMAN CLAUSEN, Gypsum, Ottawa Co., Ohio.

WANTED—An intelligent young man with practical experiences desires to enter into a reliable business, which, if satisfactory, he could eventually buy. Address B S, care American Florist.

WANTED—On private place with greenhouses, a gardener of good habits, single man, or with wife competent to cook; must understand care of conservatory, roses, orchids, etc. Address W. H. CHADWICK, 1814 Belmont Ave., Chicago.

FOR RENT—12 greenhouses, at moderate rate. Address YOUNG, Narberth P. O., Penna. Via P. R. R.

FOR SALE—Some very nice fig trees in painted tubs, cheap. Address F. KNIESCHE, 18 Hawthorne Ave., Chicago.

FOR SALE—1000 feet of four-inch pipe and fittings in good condition. Price $60 on board cars. Address B. L. Clark, West St., Randolph, Mass.

FOR SALE—1000 ft. 4-in. hot water pipe and fittings, mostly in 5 ft. lengths, connected with red lead, 6 cts. per foot. JAMES CHALK, Norristown, Pa.

FOR SALE—1,500 feet of 4-inch pipe—good as new—and also fittings. Price $10.00 per 100; $80.00 per 1000. MRS. GEO. WALDBAUER, Saginaw, Mich.

FOR SALE—The rarest chance to procure a well established business. Only $300 cash required; in an excellent neighborhood. For particulars, address ISAAC A. PASSMORE, Oxford, Pa.

FOR SALE OR LET—A valuable florist establishment near depot. Apply JACOB MENDEL, Nyack, N. Y.

FOR SALE.

500 Perle Roses in 4-inch pots at $8.00 per 100. Also 500 Lizzie McGowan Carnations, field grown, strong plants, at $5.00 per 100. **JAMES CHALK,**
Sandy Hill Greenhouses, Norristown, Pa.

FOR SALE.
THE OIL CITY GREENHOUSES,
OIL CITY, PA.

4,500 feet of glass, heated with No. 7 Furman steam boiler. Houses in good repair and well stocked. A bargain.

FOR SALE OR RENT.

Rose and cut flower growing plant containing about 35,000 square feet of glass; houses heated by steam and hot water; all in good condition; well stocked with roses, ferns, palms, etc. Only 18 minutes ride from center of city. If you mean business, address **FLORIST, care Chas. E. Prather, Louisville, Ky.**

FOR SALE OR TO RENT.

The following greenhouse property, situated on the outskirts of Springfield, the City of Houses; or will sell Greenhouses, Stock and Fixtures and give ten years' lease of 2 acres land. Ten houses in all—5 houses, 10 feet wide, 65 feet long; 4 houses, 18 feet wide, 65 feet long; 1 house, 18 feet wide, 65 feet long. Steam plant! New double Florida Boiler. Stock in good condition, with a large and extra good home market. This is an opportunity in a life-time, as present owner has other interests to look after. If you are looking for a chance, apply at once to

N. D. WINTER.
5 Elm Street, SPRINGFIELD, MASS.

HAIL ASSOCIATION REPORT.

SECRETARY'S REPORT.

The elements in general and hail storms in particular have wrought disaster to growers during the past year. Some idea of the magnitude of losses by hail may be obtained when it is stated that in the five years preceding August 1, 1892, the Florists' Hail Association paid a total of $3,028.11 for losses by hail. For the year euding August 1, 1893, the Association has paid $5,856.83, or nearly twice as much in one year as in the preceding four years. Forty members have been able to replace their glass without loss and this has been accomplished without hardship to a single member. "In union there is strength," and the force of the aphorism has been especially illustrated this year in the working of the Florists' Hail Association. The following losses have been paid since August 1, 1892: To Mrs. Ella Campbell Wilson $229.88, to Seeger & Hiersekorn $206.25, to C. A. Weddigen $13.45, to Bruenig & Aue $18.12, to Nathan Smith & Son $7.74, to Chas. Beyer $43.75, to Oklahoma Floral Co. $430.00, to Chas. J. Juengel $10.10, to Draper & Son $170 50, to August Mirring $23.60, to Andrew Meyer $31.35, to Ed. Quinn $180.00, to F. J. Fillmore $238.64, to Arthur Thomhill $12.50, to Fred Dorner $379.38, to J. A. Heller $22.58, to Ed. Paule $63.10, to Gottleib Teufel $6.56. to G. M. Kellogg $1,225.19, to A. N. Kinsman & Co. $36.25, to C. C. Murphy $5.95, to N. S. Griffith $192.95, to J. R. & A. Murdoch $77.10, to J. J. Schumacher $31.20, to Gus Brunner $69.15, to Arthur Thomhill $20.55, to Theo. Noehle $1.50, to Fred Burki $62.56, to the Heite Floral Co. $193.42, to E. Manthey $149.85, to Chas. Burtschy & Bro. $58.58, to Mrs. M. J. Chaffin $50.60, to John G. McOtty $86.83, to Henry Bertrand $6.42, to Herman Schlaactler $50.00, to J. J. Habermehl & Son $1,393.90, to C. Eisele $15.43, to C. Humfeld $16.60, to F. S. Krebs $18.15, to Mrs. J. F. Gorhring $7.15. From the total amount of losses should be deducted the amount of $81.76 which was reserved for re-insurance.

On August 1, 1893, the Florists' Hail Association had 496 members in good standing. The amount of glass insured was 4,830,780 feet, of which 2,247,012 feet was single thick and 2,583,768 feet was double thick.

An extra one-half insurance has been placed upon 63,261 feet of single thick glass and 117,396 feet of double thick glass. An extra whole insurance is carried upon 379,509 feet of single and upon 555,511 feet of double strength glass, making it equivalent to a single insurance upon 5,8 6,128 square feet of glass. The amount received for insurance during the past year is $1,406.69, of which $575.47 is membership fee and $831.22 is assessment fee.

One assessment has been levied during the year, known as the fourth assessment from which the Association received the sum of $3 379.16.

The total disbursements have been losses $5,856.83, expenses $916.02, bond purchase $510.48 and $6.25 allowed on guarantee fund, leaving in the hands of the treasurer for reserve fund $607.12, for assessment fund $1,072.08. The reserve assets consists of $2,500 in bonds in addition to the membership fee as above reported, making a total reserve fund of $3,107.12.

Although losses at one time came thick and fast the business of the Association has been conducted without touching the reserve fund at any time, and it is with pride that the secretary can report that when prompt action was necessary every official in the Associatiou responded without a moments delay. The response of members to the emergency assessment levied was so prompt as to inspire all with confidence in the stability of the Florists' Hail Association, and when it is thoroughly understood how easy it is to aid each other in case of disaster through the medium of the Hail Association the membership will assume colossal proportions.

The percentage of loss for the past year has been one square foot of single thick glass to 37,6604 square feet insured, and one square foot of double thick glass to every 93.2827 square feet insured. 59,665 square feet of single thick has been paid for during the year, and 27,712 square feet of double thick. From Texas to Manitoba and from Wyoming to Maine hail has fallen with such violence and frequency that the "hail belt" has been obliterated.

J. G. ESLER, Secretary.

TREASURER'S REPORT, AUGUST 1, 1893.

Received new membership fees. .	$377.33	
" additional memb. fees . .	198.14	
		$575.47
Received new first assessment . . .	401.77	
" additional 1st assessment	251.51	
		$653.28
Received extra whole assessment. .	165 93	
" " half assessment . .	12.01	
		$177.94
Received fourth assessment.	3,379 16	
" interest	105.00	
		$4,890.85
Balance, Aug. 1, 1892	$3,996.17	
		$8,887.02

DISBURSEMENTS.

Paid for losses as per vouchers. .	$5,856 83	
Less re-insurance	81.76	
		$5,775.07
Sundry expense per vouchers . . .		916.02
Bond purchase per vouchers		510.48
John Burton for guarantee fund		6.25
		$7,207.82
Cash on hand.		1,679.20
		$8,887.02
Bonds on hand.	$2,500.00	

J. C. VAUGHAN, Treasurer.

We Sell Mushroom Spawn.

LILIUM HARRISII AND DUTCH BULBS,

Special Low Prices to Florists and Dealers.

WEEBER & DON,

Seed Merchants and Growers,

114 Chambers St., New York.

SMILAX WANTED.

Wanted, lowest estimate on 3,000 Smilax. Will trade some Calla Lily bulbs. Address

W. J. DOWNES, 906 Sherman Ave., Evanston, Ill.

25,000 FINE FERNS.

Our stock of young Ferns is greater this season than ever. The plants are just in proper condition to shift on into 3-inch pots for use in jardinieres and fern dishes during the fall and winter.

During the past five years there has always been a great scarcity of this stock from the holiday season on, and this year will be no exception. You cannot go amiss by laying in a stock now and growing them on.

As our stock is nearly all grown in open frames, it is in a well-hardened off condition and will stand shipment by freight, except to very distant points, thereby saving heavy express charges.

ADIANTUM ANEITENSE,
" CUNEATUM,
" BELLUM,
" GRACILLIMUM,
" DECORUM,
" ELEGANS,
" PULVERULENTUM,
DAVALLIA STRICTA,
DICKSONIA ANTARCTICA,
DIDYMOCHLAENA TRUNCATULA,
GYMNOGRAMME SCHIZOPHYLLA.

HEMIONITIS PALMATA,
LASTREA ARISTATA VARIEGATA,
LASTREA OPACA,
NEPHRODIUM EMERSUM CRISTATUM,
" HIRTIPES.
NEPHROLEPIS EXALTATA,
ONYCHIUM JAPONICUM,
POLYSTICHUM COREACEUM,
PTERIS SERRULATA CRISTATA,
" " NANA,

$6.00 per 100; $50.00 per 1000.

ADIANTUM CONCINUM,
" CONCINUM LATUM,
" PUBESCENS,
CYRTOMIUM FALCATUM,
LOMARIA CILIATA,
PTERIS ADIANTOIDES,
" ARGYREA,

PTERIS CRETICA,
" CRETICA ALBO LINEATA,
" CRETICA MAGNIFICA,
" LEPTOPHYLLA,
" PALMATA,
" SERRULATA,
" SIEBOLDII,
" TREMULA.

$5.00 per 100; $40.00 per 1000.

ADIANTUM LATHAMII,
ACTINIOPTERIS RADIATA,

ADIANTUM RHODOPHYLLUM,
ALSOPHILA AUSTRALIS.

$1.00 per dozen; $8.00 per 100.

ADIANTUM FARLEYENSE. As fine a lot of plants as it is possible to produce, in 5-inch pots; vigorous, clean, healthy, well grown stock, at $1 00 each.

Our new **Quarterly Trade List** will be issued early in September, and offers a full line of all leading Florists' stock suitable for the fall trade, such as Araucarias, Azaleas, Cycas, Pandanus, Ficus and Palms. Our stock of these specialties is greater than ever before. The plants are well grown and certain to give satisfaction.

HENRY A. DREER,

Philadelphia, Pa.

P. SEBIRE & SONS,

Nurserymen, USSY, Calvados, FRANCE.

A general assortment of Fruit Tree Stocks, such as Apple, Pear, Myrobolan Plum, Mahaleb and Mazzard Cherry, Angers Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, etc. The largest stock in the country. Prices very low. Packing secured. Catalogue free. Send for quotations before placing your order elsewhere. Agents for U. S. America and Canada.

C. C. ABEL & CO., P. O Box 920, New York.

FOR SALE.

5,000 strong healthy 3-in. Forcing Roses at $4.50 a 100; $40 a 1000. Will trade for 500 Primroses, 500 Smilax or for Palms.

ALBERT FUCHS FLORAL CO.,

Evanston Ave. & Sheridan Boul., Chicago, Ill.

Headquarters for Choice Sago Fronds, 4 to 5 feet long, $1.00. Adiantum, $1.00 a 100.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

Special Offer to American Trade.

LOUIS DE SMET,

NURSERYMEN. GHENT, BELGIUM,

OFFER AS SPECIALTIES:

Palms, Azalea indica and mollis, Araucaria excelsa (thousands), Bay Trees, Tuberous Begonias, Gloxiuias.

☞ New Trade List on application. . . .

GREENHOUSE HEATING.

BY A. B. FOWLER.

Explains fully all the best systems of heating greenhouses by both hot water and low-pressure steam. Tells you the points to consider in selecting an apparatus. How to adjust same to various locations; gives the results of the latest scientific experiments. Shows how to compute the number of feet of pipe required for a given space; draft and other important matters.

It is highly commended by Mr. John Thorpe and others. Postpaid, 75c.

Sent on receipt of price. Address,

AMERICAN FLORIST,

CHICAGO.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent, 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Injury to Plants by a Trespassing Dog.

It is quite a common thing for persons to be annoyed by other people's dogs breaking or injuring their plants. In such cases it is not lawful to kill the dogs, says the Supreme Court of Michigan in the case of Tenhopen vs. Walker. The legal remedy is an action against the owners for damages which the law affords in all cases for the destruction of property caused by the beasts of others. In the case where this was decided the owner of a certain residence, who had a pond of lilies in front of his house, had the same on several occasions injured by dogs wallowing in the pond, which laid open to the highway. Wrought up by this when he saw from an upper window two boys, or young men, going along the highway accompanied by a dog owned by their mother and two other dogs, and the first mentioned dog approached the pond apparently with the intent to slake its thirst, he went down into the lower hall, got his gun, and, returning above, shot the dog from the upper window. The dog was a valuable one and the court awarded its owner $225 damages for the killing of it. The court said that the owner of the dog was entitled to recover actual damages, which would consist of the value of the dog at the time it was killed; and that, even if the dog was committing a trespass at the time it was killed, and, in the opinion of the man who killed it, was about to destroy some of his plants, it would not be a justification for the killing, or in any way mitigate actual damages, because the law afforded the remedy hereinbefore referred to. The court further said that, while actual damages could not be mitigated by the fact that the man had theretofore been annoyed by other dogs, yet, if it was found that he had been so annoyed, or if he believed at the time that this dog was actually in the act of destroying some of his property, the jury might consider whether these facts could entirely rebut malice; and if, notwithstanding these facts might be found to exist, they believed that he was actuated by malice, they might even then award exemplary damages; for, if he willfully and maliciously did the killing, exemplary damages would be recoverable. The jury may or may not have found that the dog was killed willfully and maliciously, but there certainly was evidence which would have justified them in finding the act willful and malicious. In cases of malicious injury it is not necessary that there should be actual enmity towards the person injured. Dogs in Michigan, as in many of the other states, have value, and are the property of the owner as much as any other animal which one may have or keep. J. L. B.

"JACQ" ROSES the Year Around.

We are now Cutting THOUSANDS DAILY of

* METEOR ROSES *

The finest Crimson Summer Rose, equal to "Jacq" in color and far superior in keeping qualities. Can supply it in quantity at all times. Prices on application.

F. R. PIERSON COMPANY,
TARRYTOWN-ON-HUDSON, NEW YORK.

THEY SAY That ASPARAGUS PLUMOSUS NANUS

at 50 cents a string, 8 to 12 feet in length, is the cheapest and best material for decorating, as it will stand longer and look better than any other green in this hot weather.
ORDER IN LARGE OR SMALL QUANTITIES, FROM
W. H. ELLIOTT, Brighton, Mass.

We are the People!
Who? KOFFMAN,
Where? WALDEN, Orange Co., N. Y.
What? SMILAX
25c. a string; 20c. a string by the hundred; 18c. a string by the thousand.
When? ALL THE YEAR AROUND.
Also Adiantum Cuneatum Fronds
At $1.25 per 100.
And he pays the Express.

Phœnix rupicola.

This useful and beautiful Date Palm in EXTRA FINE PLANTS, growing in from 7 to 10-inch pots, from $3.50 to $7.50 each, according to size.
EDWIN LONSDALE, Wyndmoor,
STATION "G," (Chestnut Hill P. O.) PHILADELPHIA.

CATALOGUE PRINTING.
ELECTROTYPING.
Done with expert ability for Florists Nurserymen, Seedsmen. Write to
J. Horace McFarland Co.,
HARRISBURG, PA.

CHOICE SWEET PEAS
Being the largest growers of the above in the world the trade are invited to send a list of their requirements and secure low prices for Fall delivery.
SHERWOOD HALL NURSERY CO.
Menlo Park and San Francisco, Cal.

WANTED.
Second-hand Hitchings Boiler, No. 15 or 16. One not used over two or three seasons.
CUMMINGS & WARE,
209 Washington St, BOSTON, MASS.

WHOLESALE FLORISTS
La Roche & Stahl
N. E. CORNER 13th & Chestnut Sts.,
PHILADELPHIA.

SAMUEL S. PENNOCK,
Wholesale Florist
REMOVED TO REAR OF 42 S. 16th ST.,
Philadelphia, Pa.

HARDY CUT FERNS
LAUREL FESTOONING, ETC.
The only place in the world where you can Always get them,
H. E. Hartford,
18 Chapman Place, BOSTON, MASS.

SMILAX
Extra Strong Plants, from 2¼-inch pots only.
$1.75 per 100. $16.00 per 1000.
Heite Floral Company
712 Linwood Ave., Kansas City, Mo.

Notice of Dissolution.

August 1st, 1893.

Notice is hereby given that the co-partnership heretofore existing between David Allan and David Fisher, doing business as florists and nurserymen, in that part of Woburn, County of Middlesex and Commonwealth of Massachusetts, called "Montvale," under the firm and style of "Fisher Brothers & Co." has been this day, by mutual consent, dissolved.

Said business will be hereafter carried on by David Fisher alone, who assumes all liabilities of said firm and to whom all claims belonging to said firm should be paid. Signed DAVID ALLAN.
DAVID FISHER.

CUT BLOOMS OF ASTERS,
Carefully packed and shipped at short notice. Price, $1 00 per 100.
Address J. G. BURROW, Fishkill, N. Y.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO.

	Per 100
Perle, Niphetos, Gontier	$2.00@$3.00
Brides, Mermets, La France	3.00@ 4.00
Meteors	5.00
Carnations, short	.50
" long	1.00
Adiantum	1.00
Valley	3.00
Smilax	12.50@16.00

Ferns, common, 30c. per 100; $2 50 per 1000.

Kennicott Bros. Co.
WHOLESALE CUT FLOWERS,
34 & 36 RANDOLPH STREET,
CHICAGO, ILL.
WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
126 Dearborn Street, CHICAGO.
Store Closes Nights 9 P. M.; Sunday 2 P. M.

NILES CENTER FLORAL CO.
Incorporated.
WHOLESALE GROWERS OF
CUT FLOWERS of ALL KINDS
and Dealers in FLORISTS' SUPPLIES.
CHAS. W. McKELLAR, Mgr.
In Chicago Cut Flower Exchange.
45 Lake St., CHICAGO.

M. OLSON,
Wholesale FLORIST,
66 WABASH AVENUE,
Telephone 4786. CHICAGO, ILL.

T. J. CORBREY,
Wholesale and Commission
FLORIST,
45 Lake St., CHICAGO, ILL.
In Chicago Cut Flower Exchange. . . .

A. G. PRINCE & CO.,
Wholesale and Commission
FLORISTS,
45 LAKE STREET,
In Chicago Cut Flower Exchange. CHICAGO.

DAN'L B. LONG,
COMMISSION • FLORIST,
495 Washington St., BUFFALO, N. Y.
FORCING BULBS, FLORISTS' SUPPLIES,
LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application.

H. L. SUNDERBRUCH,
WHOLESALE FLORIST
4TH & WALNUT STREETS,
Cincinnati, O.

Wholesale Markets.

Cut Flowers.

	NEW YORK, Aug. 15.
Roses	1.00@ 3.00
" Beauty	5.00@15.00
Carnations	.25@ .50
Valley	3.00@ 4.00
Sweet Peas, per 100 bunches	.50
Asters	1.00
Adiantums	1.00
Smilax	15.00

	BOSTON, Aug. 15.
Roses	3.00@ 4.0
Carnations	.35@ 1.00
Lily of the valley	3.00@ 4 00
Peas, per 1000	.25@ .35
Coreopsis, cornflower	.50
Asters	1.00
Adiantum	1.00
Smilax	12.50
Asparagus plumosus	50.00

	PHILADELPHIA, Aug. 15.
Roses	2.00@ 3.00
" Beauties	15.00@20.00
" Meteors	6.00
Carnations	.75@ 1.00
Asters	1.00
Sweet peas	.25@ .50
Gladiolus	5.00
Valley	4.00
Pond lilies	.50
White hollyhocks	.75@ 1.00
Balsams	.25@ .50
Adiantum	.75@ 1.00
Smilax	15.00
Asparagus	50.00

	CHICAGO, Aug. 15.
Roses, Perles, Guillot, Niphetos	2.00@ 3.00
" Albany, Bride	3.00@ 4.00
" Meteor	5.00
" Beauties	8.00@15.00
Carnations	.50@ 1.00
Sweet Peas	.12
Auratum	6.00@ 8.00
Gladiolus, longiflorum	4.00@ 6.00
Cornflowers	.20
Asters	.60
Hollyhocks, white	1.00
Valley	1.00@ 3.00
Dahlias	1.00
Smilax	12.00@16.00
Asparagus	60.00

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers AND Florists' Supplies
WHOLESALE.
67 Bromfield Street, BOSTON, MASS.

WHOLESALE FLORISTS,
JOBBERS IN . . . FLORISTS' SUPPLIES, FLORISTS' VASES.
METS, BRIDES, GONTIERS, CARNATIONS, ALWAYS ON HAND.
1 Music Hall Place, BOSTON, MASS.
HORTICULTURAL AUCTIONEERS. . .

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St., BOSTON, MASS.
Mention American Florist.

Send for a Copy OF OUR
TRADE DIRECTORY
AND REFERENCE BOOK.
PRICE $2.00.
AMERICAN FLORIST CO.,
P. O. Drawer 164. CHICAGO, ILL.

CUT SMILAX,
15 cts. per string till November 1st. Quality first-class. Special attention to orders by wire.
J. E. BONSALL & SON, 308 Garfield Ave., Salem, O.

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN AND SHIPPERS OF
Choice Flowers.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST,
32 West 30th Street, NEW YORK.
Roses Shipped to all Points. Price list on application.

HUNTER & PURDY,
WHOLESALE DEALERS IN
CUT FLOWERS
51 W. 30th St., NEW YORK.
FRANK D. HUNTER. JAMES PURDY, Formerly 112 W. 40th St

JAMES HART,
WHOLESALE FLORIST,
117 W. 30TH ST., NEW YORK.
The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHRS,
WHOLESALE
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.
Established 1879.

MILLANG BROS.,
Wholesale Florists,
17 WEST 28TH STREET,
NEW YORK.
BRANCH: Cut Flower Exchange, 408 E. 34th Street.

MICHAEL A. HART,
Wholesale AND Commission Florist
113 WEST 30TH STREET,
. . . NEW YORK.
THE FINEST ROSES AND CARNATIONS.
Branch, at Cut Flower Exchange, 408 E. 34th St.

EDWARD C. HORAN,
34 W. 29th Street, NEW YORK,
Wholesale Florist
Careful Shipping to all parts of the country.
Price list on application.

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
WHOLESALE
FLORIST,
1122 FINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

W. ELLISON,
WHOLESALE
Cut Flowers AND Florists' Supplies
1402 PINE STEET,
St. Louis, Mo.

Denver.

The regular meeting of the club was well attended. Those absent were mostly members that have had to look for work in new lines, for since silver has gone everyone has had to cut help in every way. The market has gone to keep company with silver and six national banks. Notwithstanding the hard knocks that we are recciving every concern is making ready for a big output this winter.

The chrysanthemum show will be a grand success as far as products are concerned, if not in attendance. I have great confidence in the stock already under way, for I could not find anything to stand by Mr. Adams', Mauff's or Beech's plants while in Chicago. May be they were there, but hunt as I would in all imaginable places, I still thought that Denver was as usual not far behind.

Haul & Thompson are adding two new houses. They are comparatively a new firm but are old hands, and are doing all they can to help make the flower loving public know what Montclare is and where it is.

The florists here are all interested in the poultry business. Grasshoppers are a curse this year but chickens are a sure cure. Two or three about a month old may be found in very many chrysanthemum houses, and at the Waterbury place three are holding forth in the rose house.

LYLE.

FOR SEED TRADE news see page 38.

DO YOU WANT an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our trade directory and reference book.

WE request subscribers to make remittance by draft or money order when renewing subscriptions, and to keep a record of the numbers and dates of same. This is to guard against losses in the mails.

WHEN SENDING us newspapers containing items you wish us to note please do not fail to distinctly mark the item so it can be easily found, as we can not spare the time to hunt through the mass of papers sent us for unmarked items.

PANSIES.

If you plant pansies, it will be to your advantage to plant at least one hundred of the beautiful strain I am offering for sale, as a trial. The flowers are very large and beautifully marked. Fine plants ready Sept. 1 and after, at

65c. per 100 and $5.00 per 1000.

Cash with order. Money Order Office, Lancaster, Pa.

ELMER J. WEAVER, Ronks, Lanc. Co., Pa.

SMILAX.

First-class, from 2½-inch pots, $2.50 per 100; $20.00 per 1000. Sample free.

Address **J. G. Burrow,**

FISHKILL, N. Y.

MARIE LOUISE VIOLETS

Field grown plants. Fine stock.

PER HUNDRED.....$10.00

PER THOUSAND..... 80.00

500 at 1000 rate.

C. R. KNAPP,

P. O. box 62. NEW HAMBURGH, N. Y.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.



Roman Hyacinths,
P. W. Narcissus,
L. Harrisii, Freesias,

NOW READY.

ROSES FOR FORCING.

PERLES, BRIDES, LA FRANCE, ETC., per 100 $5.00; per 1000 $45.00.

Special C. SOUPERT, 2½-inch, fine stuff, per 100 $3.50; 3½-inch, per 100 $8.00.

VAUGHAN'S INTERNATIONAL PANSY MIXTURE,
Now Ready, is a World Beater.

Vaughan's Seed Store,

148 W. Washington St., CHICAGO. 26 Barclay St., NEW YORK.

HARRISII, ROMANS

NOW READY.

Our stock is unsurpassed, the bulbs are solid, thoroughly ripened and cured, well formed and up to measurement.

FREESIAS.

Select Stock. Per 100, 75 cents; per 1,000, $4.50.

PANSY SEED

BARNARD'S FLORIST MIXTURE is popular wherever tried. Per trade packet, 25 cents; per ⅛ ounce, $1.00.

CANE STAKES, HORN SHAVING, BONE MEAL, ETC.

W. W. Barnard & Co.

6 and 8 N. Clark Street, CHICAGO.

ONION SEED

OUR SPECIALTY.

Grown from selected Onions and the purest stock in the United States.

1893 CROP 1893

Yellow Globe Danvers, Yellow Flat Danvers, Extra Early Red, Wethersfield. } Write for Prices.

GOX SEED AND PLANT CO.

SAN FRANCISCO, CAL.



Write for Wholesale List.

MICHEL PLANT AND BULB CO.,

ST. LOUIS, MO.

Berlin Lily of the Valley Pips,

A 1 QUALITY.

I. MARTENS, HAMBURG, GERMANY.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

100,000 Freesias.

Extra fine select stock. Bulbs running fully **500** to the pound.

$5.00 PER 1000 DELIVERED.

:- Apply at Once -:

NOW READY : :

: **CALLAS** in all sizes, **large stock.**

California Bulbs—**LONGIFLORUMS** in August.

We ship Auratums, Rubrums, Albums in October. Send for our new Price List.

H. H. BERGER & CO.,

SAN FRANCISCO, CAL.

HULSEBOSCH BROS.,

BULB AND PLANT GROWERS,

OVERVEEN, near Haarlem, HOLLAND.

	Per 100	1000
Lilium Harrisii, 4 to 5-inch in circ.	$2.20	$19.00
" " 5 to 7-inch in circ.	3.00	24.00
" " 7 to 9-inch in circ.	5.25	47.00
" " 9 to 12-inch in circ.	11.00	100.00
Lilium Longiflorum 10 per cent dearer than Lilium Harrisii.		
Roman Hyacinths, extra selected	2.50	22.00
" " top roots	3.00	25.00
Narcis. Totus Albus, extra selected	1.00	7.50
" " " Grandiflor'm, ext. s'l'c'd	1.50	11.00

Fall Wholesale Catalogue now ready. Address

A. HULSEBOSCH,

P. O. Box 3118. Warehouse 58 West Street,

NEW YORK CITY.

Mention American Florist.

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to

Seed Bags and Catalogue Envelopes.

NEW HAVEN, CONN.

LILIUM HARRISII,
FREESIAS,
ROMANS,

Florists' Supplies, Wire Work. **NOW READY.**

WISCONSIN FLOWER EXCHANGE,
468 Milwaukee St., Milwaukee, Wis.

BULBS! BULBS!

Lilium Auratum, Spec. Rubrum, Spec. Album, Longiflorum, etc. Order now.

Callas, Callas, at lowest rates: Fresh Cut Cycas leaves, prices and sizes to suit all. Fresh imported Cycas, lowest prices. Camellias, Pæonias, Japan Maples, and for general Japanese stock seeds. Remember we guarantee sound delivery, still goods travel at owner's risk. Apply to

F. GONZALEZ & CO.,

Nursery and Greenhouses, 303 to 312 Wayne Street,

SAN FRANCISCO, CAL.

BEFORE PURCHASING YOUR SUPPLY OF SEEDS, DO NOT FAIL TO WRITE TO

CROSMAN BROS,

Wholesale and Retail Dealers in

SEEDS for the Vegetable Garden,
" Flower Garden,
" Greenhouse,
" Lawn and Park,
" Farm.

— ALSO —

GARDEN and LAWN TOOLS, and FLORISTS' REQUISITES.

BULBS, PLANTS, ROOTS, Etc

Wholesale Price List, ready Jan. 1.
Garden and Farm Annual, ready Jan. 1,
Bulb Catalogue, ready Sept. 1.

CROSMAN BROS.

Wholesale, 503 Monroe Ave.
Retail, 23 S. Clinton Street,
ROCHESTER, N. Y

(ESTABLISHED 1850).

Edmund Van Goppenolle

NURSERYMAN,

MEIRELBEKE, NEAR GHENT, BELGIUM.

Great Culture of Aspidistra, Araucaria Excelsa. PER 100.
Azalea Indica (20,000 disposible), at $20, 25 and 30 PER 1000.
Begonia Tuberous, Best Sorts, 200,000 year y, at $18
Dracæna, Ferns, Ficus Elastica, Gloxinia, - - $22
Hydrangea Paniculata, Laurus Nobilis (Sweet Bays),
Many thousand pairs from all sizes, in Crowns and Pyramids, Lilium, Palms, enormous choice in all kinds at reduced prices. Rhododendron Hybr, Spiræa Japonica.
Price list on application; also to my agents.

C. C. ABEL & CO.,
P. O. BOX 920, NEW YORK.
Mention American Florist.

COMPETITION DEFIED.

THRE. DELARUYE DE MULDER,

NURSERYMAN,

Ledeberg, nr. Ghent, Belgium,

Begs to offer all kinds of Palms, Azalea Indica and mollis, Araucaria excelsa and glauca, Aspidistra, green and variegated, all kinds of Dracænas, green, striped and variegated, Begonia and Gloxinia tubers, Rhododendrons, Ficus elastica, green and variegated, Bay Trees, Laurustinus, etc., etc., of all sizes, at the lowest and cheapest market prices, and of an irreproachable culture.

Terms—Cash with order for all unknown purchasers; all packing free for orders with cash exceeding $50.00.

☞ Apply for general trade list.

Association "Flora"

BOSKOOP, HOLLAND

NURSERIES.

Roses, Clematis, Shrubs, Azaleas, Palms, Herbaceous Plants, Bulbs, Etc.

Catalogue on Application.

P. OUWERKERK,
206 Cambridge Ave., JERSEY CITY, N. J.

PRIMROSES.

Fine stocky plants, now ready for 3-in. pots. Flowers brilliant colors; large; fringed; blooming upon tall stems. 12 sorts.

Price for the single.....per 100 plants, $ 2.50
" " " per 1000 plants, 20.00
" " double (white & red).....per 100, 5.00

We send additional plants with every order to help pay the express charges.

Address HENRY S. RUPP & SONS,
Shiremanstown, Pa.

MAMMOTH BULBS

LILIUM HARRISII FOR EXHIBITION

purposes and for growing **SPECIMEN PLANTS.** Very choice and scarce.
PRICE, $25.00 per 100.

Also a fine lot of 5 to 7, and 9 to 11
PRICE, 5 to 7, $3.00 per 100; $25.00 per 1000.
PRICE, 9 to 11, $12.00 per 100.

F. R. PIERSON COMPANY,
Tarrytown-on-Hudson, N. Y.

TUBEROUS ROOTED BEGONIA PLANTS.

STRONG, YOUNG POT GROWN PLANTS.

Ready to bloom. Will make fine plants for fall sales. In 4 colors. Price, $12 00 per 100.

F. R. PIERSON COMPANY,
TARRYTOWN-ON-HUDSON, N. Y.

SMILAX.

	Per 100	Per 1000
From 2½-inch pots.....	$3 00	$25.00
" 2-inch pots.	2 50	20.00
" Thumbs.....	2 00	15.00

Also a limited quantity of PANDANUS UTILIS and LATANIA BORBONICA, stroug plants, from 4-inch pots. Price on application.

NATHAN SMITH & SON,
167 W. Maumee St., Adrian, Mich.

C. STOLDT,

CYCLAMEN GROWER,

WANDSBEK-MARIENTHAL, near Hamburg, GERMANY,

Offers CYCLAMEN SEED, STOLDT'S HYBRIDS. First-class seed, are acknowledged to be unsurpassed by all authorities in Europe, at the following prices, including postage:

Bright dark red.....per 100 corms, 50 cts.
Rose of Marienthal..... " " 50 cts.
Katchen Stoldt, pure white " " 75 cts.
White, with carmine eye.. " " 35 cts.

CASH WITH ORDERS.

Bulbs & Plants.

FOR CATALOGUES, ADDRESS

C. H. JOOSTEN,
IMPORTER,
3 COENTIES SLIP, NEW YORK.

Cyclamen Seeds.

KOCH'S SUPERB PRIZE CYCLAMEN.

THE FINEST STRAIN IN THE WORLD.

Bright dark red.....1000 seeds $4.50
Rose of Marienthal.....1000 seeds 4.50
White with carmine eye.....1000 seeds 3.75
Mont Blanc, extra 1000 seeds 6.25
Cash with order.

LUDWIG KOCH, Wandsbek, Hamburg, Germany.

On Commission.

If you wish to purchase at the lowest rates, or to accept consignments for sale on commission, of Belgium articles, such as Azalea indica, Palms, Dracænas, etc., please write for list and conditions of sale. Address M K L, care Am. Florist, Chicago.

Choice Lily of the Valley Pips.

Ernst Reimschneider, Altona, Hamburg.

For Fall Importation. Catalogues free on applica on to his sole agents,

C. C. ABEL & CO., P. O. Box 920, New York.

FIELD GROWN CARNATIONS.

Fine healthy plants for Winter Bloom.

W. R. SHELMIRE,
CHESTER CO., AVONDALE, PA.
Send for Circular.

CARNATIONS.

A SPECIALTY.

Full stock of all the new and leading varieties. Rooted Cuttings, Young Plants, and Field Grown Plants in season. Get our prices before purchasing.

GEO. HANCOCK,
GRAND HAVEN, MICH.

CARNATIONS

Rooted Cuttings all sold or planted out.

FIELD GROWN PLANTS IN SEASON.

Correspondence Solicited.

C J. PENNOCK, THE PINES,
Chester Co., KENNETT SQUARE, PA.

CARNATIONS

ALL

THE LEADING VARIETIES.

R. T. LOMBARD,
Wayland, Mass

CARNATIONS,

Grace Wilder, Tidal Wave and Silver Spray, **BOUVARDIAS,** Pres. Cleveland, Pres. Garfield and Bridal Bouquet, single white. Also Kentias, Arecas, Latania Borbonica, etc. Ready Sept. 1st.

WM. A. BOCK, N Cambridge, Mass.

10,000 SURPLUS CARNATIONS

Nice, healthy plants from field.
Send list of your wants, as they must be sold.

BENJAMIN CONNELL,
West Grove, Pa.

Please mention the American Florist every time you write any of the advertisers on this page.

St. Louis.

The florists from all over this broad country have come and gone and the convention of 1893 is a thing of the past; to the St. Louis florists, although it has been a busy time, it has also been a most pleasant one, giving us a chance of making and renewing pleasant acquaintances as well as enabling us to offer the hospitality of our city, in return for the many enjoyable times had in attending the various conventions of the S. A. F.

The Washington and Philadelphia delegations arrived Tuesday evening, the 8th, with President Smith; the Chicago, New York, Boston, and Cincinnati people came in on Wednesday morning and most all were quartered at either the Southern or Rozier hotels, these being favored as a person desired American or European plan. The attendance as a whole was not as large as was expected, but taking all things into consideration was very fair.

The sessions were well attended and all the papers were listened to with marked attention, calling forth considerable discussion. Attending the entertainments provided by the local club occupied all the time between sessions and consisted of a carriage ride Wednesday, passing the new Union Depot, and also through La Fayette, Tower Grove and Forest parks and to the city again by way of Lindell avenue. A visit to the Missouri Botanical Gardens upon invitation of the directors on Thursday where a lunch was served, after viewing the gardens; for Friday afternoon a trip to the Anheuser-Busch Brewery where all were shown the workings of the largest brewery in the states, and where a lunch accompanied by unlimited liquid refreshments of a certain kind was served. And in the evening a trip by all the ladies and several gentlemen under the guidance of Mr. Harry Chandler to the Southside park where racing is indulged in every evening with the aid of electric lights.

On Saturday the bowlers held high carnival at the Pastime Athletic Club, the New York team winning both the Spaulding and St. Louis cups. The prize for the highest individual score however went to W. K. Harris of the Philadelphias, which team also ranked second on average score, St. Louis and Chicago following in the order named. Washington entered the evening before but did not show up to compete. In the afternoon a trip to Brownhurst upon invitation of Mrs. A. S. Brown was taken by most all the members and was much enjoyed. Most all delegates left about 8:30 Saturday evening the special late train being abandoned, and they were thus enabled to see only a part of the illumination of the city, which was to be regretted as it was worth seeing.

Taking it all in all the convention may be said to be a success and the only hope expressed here is that our visitors enjoyed their visit as much as we enjoyed having them with us. R. F. T.

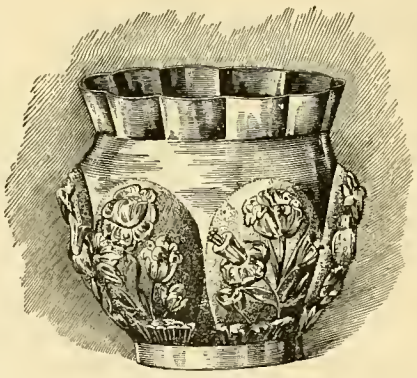
FLORISTS' LETTERS.

WE'RE STILL IN IT. DESPITE REPORTS TO THE CONTRARY.

The claim in patent No. 407,331, held by the Boston Florist Letter Co., reads: "A florist's figure stamped from a sheet of material, appropriately colored, and having a flock made of fragments of flowers, more or less comminuted, substantially as described."

My letters are manufactured of nothing covered in above claim. These letters are made in three styles, 2-inch Standard, 2-inch Heavy and 1½-inch Standard. Price 2 cts per letter: each letter having a fastener attached to the back of the letter; not covering the face of the letter. Seeing is believing; therefore if in need of letters send for samples of the "much inferior" and judge for yourself. Chas E. Montgomery, 107 Washington St., WILLIAMSPORT, PA

SALTER BROS., Rochester, N.Y. Agts. for Western N. Y



Silver Cup awarded us for Meteor Roses, exhibited at Madison Square Garden, 1892, for best 25 Red Roses of any variety.

Roses for Winter Flowering.

We still have fine stocks of the two leaders,

Meteor & Mme. Caroline Testout.

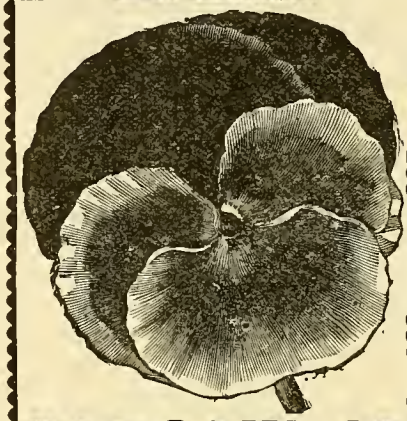
ALSO

American Beauty, Bridesmaid, Kaiserin Augusta Victoria, Perle, Mermel, Cusin, Niphetos, etc.

Write us for quotations stating quantities and kinds wanted.

Our large handsomely illustrated catalogue mailed free on application.

F. R. Pierson Company,
TARRYTOWN-ON-HUDSON, N. Y.



SELECT PANSY SEED

●●● Trade Pkts., 500 Seeds Each. ●●●

	Per Pkt.		Per Pkt.
Bugnot,	24c	Giant Five Spot,	45c
Cardinal,	40c	Giant Trimardeau Mix,	15c
Cassier's Giant,	24c	Gold Margined,	10c
Delicata,	10c	King of the Blacks,	10c
Dark Purple,	10c	Light Blue,	10c
Deep Indigo Blue,	10c	Lord Beaconsfield,	10c
Emperor William,	10c	Pelargoniflora,	12c
English Face,	12c	Prince Bismark,	12c
Fawn Color,	10c	Pure Yellow,	10c
Fire King,	24c	Quadricolor,	10c
Giant Black,	40c	Red Victoria,	30c
Giant Beaconsfield,	40c	Rose Marbled,	10c
Giant Pure Gold,	40c	Rosy Morn,	24c
Giant Striped,	45c	Striped and Mottled,	10c
Giant Purple,	40c	Snow Queen,	10c
Giant Three Spot,	40c	Violet Margined White,	10c

BARGAIN OFFER! To introduce my seeds to florists, I will send one trade packet each of **32 VARIETIES** total the 16,000 seeds, (equal ¾ oz.) by mail, registered for **$5.00**

DON'T BUY MIXED PANSY SEEDS when you can purchase in separate colors at the same price and know just exactly what you are planting. **Give me a trial order. Satisfaction guaranteed.**

MISS C. H. LIPPINCOTT, Grower and Dealer in **Flower Seeds Exclusively,** 828 Sixth Street So., MINNEAPOLIS, MINN.

Siebrecht & Wadley,

ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.

Palms,
ORCHIDS
Roses,

and New Plants.

FRESH DRACAENA CANES NOW READY.

ORCHIDS.

The Finest Stock in the World.

SANDER'S,
ST. ALBANS,
ENGLAND.

Thirty minutes from London.

Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

Established and Imported

ORCHIDS.

Ig. FORSTERMAN,

Newtown, N. Y.

Always mention the American Florist when writing to advertisers.

Auguste van Geert, Ghent, Belgium.

(ESTABLISHED 1808.)

K. J. KUYK,
SUCCESSOR.

Special Culture for the Trade.

ANDROMEDA JAPONICA,	CROTONS,
ANTHURIUMS,	DRACÆNAS,
ARALIA	KERKHOVEANA, ERICAS,
"	SIEBOLDII, EURYA LATIFOLIA,
"	VEITCHII, LILACS FOR FORCING
ARAUCARIAS,	METROSIDEROS SEMP.,
ASPARAGUS PLU. NANUS,	OPHIOPOGON Jaburan. f.v
ASPIDISTRA,	ORCHIDS,
AZALEAS.	PALMS,
BAY TREES,	PANDANUS,
CAMELLIAS,	RHODODENDRONS,

And full strain of Rare Plants and Novelties

BULB FARMS AT
HILLEGOM, HOLLAND.

☞Ask for catalogue and prices, if not already received.

TRY DREER'S
GARDEN SEEDS,

Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.

HENRY A. DREER,
Philadelphia, Pa.

Mention American Florist.

BEAUTY

and **BRIDESMAID**, fine 3-inch now ready for planting, $8.00 per 100. Also **Perle, Meteor, Cusin, Wootton, Soupert, Hoste, Sunset, Mermet** and **Bride**, $6 per 100. A splendid stock for belated planters.

M. A. HUNT, Terre Haute, Ind.

ROSES

BRIDES, MERMETS, BON SILENE, NIPHETOS, CUSINS, WATTEVILLES AND JACQUEMINOTS.

25,000 line plants in 3-inch pots, at a bargain. Will quote you prices on application. IF WANTED SPEAK QUICK.

ROSES

A. N. PIERSON, CROMWELL, CONN.

Hybrid Perpetual Roses,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

ROSES.

TEAS $30.00 per 1000
HYBRIDS 40.00 per 1000

Healthy plants, in 2-inch pots.

Also healthy plants of the Newest Chrysanthemums, and general greenhouse stock.

Trade list on application.

Jacob Schulz,
LOUISVILLE, KY.

ROSES,

STRONG PLANTS,

WRITE FOR PRICES.

Kemble Floral Co.,
OSKALOOSA, IOWA.

The Grand new Forcing Rose.

"American Belle."

Prices and full particulars on application.

John Burton, Chestnut Hill, Philadelphia

10,000 Gen. Jacqueminots.

Pot Grown on their own Roots.

From 5-in. Pots, 16 in. to 18 in. high, $8.00 per 100
From 4-in. Pots, 12 in. to 15 in. high, $6.00 per 100
ENGLISH IVIES, Pot Grown, one year old, 3 to 5 feet high, $5.00 per 100.

Cash with orders. When ordering give directions how to ship.

JOHN RECK, Bridgeport, Connecticut.

ROSES. ROSES. ROSES.

Large stock, best varieties, in fine condition for immediate planting, 3-in. $7 per 100; 4-in. $9.
Adiantum cuneatum, 3-inch, $5.00 per 100.
Double White Primulas, 2-inch, $5.00 per 100.
100 varieties best Old and New Chrysanthemums, 2½-inch pots, $3.00 per 100; 4-inch pots, $6.00 per 100.
General greenhouse stock, all sizes. Low prices.

Address **HENRY SMITH,**
130 Monroe St., Grand Rapids, Mich.

ROSES. Fine healthy plants. Just what you want for forcing, at the following low prices:

Bride	2½-in.	$4.00 per 100;	3-in.	$7.00 per 100	
Mermet	"	4 00	"	7.00	"
Perle	"	4 00	"	7.00	"
Wootton	"	4.00	"	7.00	"
Beauty	"	5.00	"	8.00	"
Mme. Hoste	"	4.00	"	7.00	"
Bennett	"	4.00	"	7.00	"
Albany	"	4.00	"	7.00	"

NEWELL & KIDD, (Successors to F. Wilson),
2320 St. Joseph Ave., ST JOSEPH, MO.

SURPLUS STOCK OF ROSES.

STRONG, HEALTHY PLANTS.

300 Mermets, 4-in per 100, $7 00
300 Mermets, 3-in " 5 00
300 Brides, 3-in " 5 00

CRABB & HUNTER,
Grand Rapids, - - Michigan.

ROSES. ROSES.

STRONG FIELD GROWN PLANTS; VARIETIES SUITABLE FOR FLORISTS' USE. LARGELY

GEN. JACQUEMINOT, MRS. J. H. LAING, ULRICH BRUNNER, MAGNA CHARTA, Pr. CAMILLE DE ROHAN, PAUL NEYRON, MARSHALL P. WILDER, ANNA DE DIESBACH, ALFRED COLOMB, ETC., ETC.

A FULL ASSORTMENT OF MOSS AND HARDY CLIMBERS.

TREE ROSES. A splendid stock, fine smooth bodies, strong two year heads.

Our usual complete assortment of Trees, Shrubs, Bulbs, Plants, Etc.

CORRESPONDENCE AND INSPECTION INVITED.

THE STORRS & HARRISON CO.,
PAINESVILLE, OHIO.

10,000 FIRST QUALITY FORCING ROSES

READY FOR IMMEDIATE PLANTING.

Fully equal to those sold last year, and perfectly healthy in every respect.

LA FRANCE, 3-inch pots, $9.00 per hundred; 4-inch pots, $12.00 per hundred.

MERMET, BON SILENE, MME. HOSTE,
PERLE DES JARDINS, SAFRANO, MME. CUSIN,
3-inch pots, $7.00 per 100; 4-inch pots, $10.00 per 100.

SMILAX. Strong plants, 2½-inch pots, $2.50 per hundred; $20.00 per thousand.

J. L. DILLON, Bloomsburg, Pa.

FORCING ROSES. Good stock . . . 3 AND 4-INCH POTS.
AMERICAN BEAUTY, BRIDE, MERMET, BRIDESMAID, METEOR, PERLE, SUNSET, GONTIER, LA FRANCE.
A. S. MacBEAN, Lakewood, New Jersey.

Forcing Roses. FINE STOCK, IN 3-INCH POTS.
Perle, Mermet, Bride, Meteor and Bennett.
GEO. W. MILLER, Hinsdale, Ill.

ROSES.

Fine healthy stock. Per 100 P. 1000

Perles, Mermets, The Bride, Sunset, Papa Gontier, Niphetos, Bon silene, La France, Souv. d'un Ami, Duchess of Albany, Mad. Cusin, Mad. de Watteville, from 3-in. pots,	$8.00	$75.00
SMILAX, from 2½-inch pots	2.50	20.00

Lots of other Fine Stock.

Send for new list.

WOOD BROTHERS,
Fishkill, N. Y.

A NICE LOT OF YOUNG ROSES,

in 3 and 4-inch pots.

Mermets, Brides, La France, Gontiers, Niphetos, Wootton, Waban, Brunner, Etc., Etc.,

3-inch pots, $6.00 per 100.

SEND US A TRIAL ORDER.

La Roche & Stahl,
Chestnut and 13th Sts., PHILADELPHIA, PA.

Mention the American Florist when writing to advertisers on this page.

Mention the American Florist when writing to advertisers on this page.

Chicago.

A great many of our florist friends are in town this week, homeward bound after the convention. On Sunday Lincoln and Washington Parks were largely visited by them, and all unite in praising the beautiful conservatory and natural planting of Lincoln Park, and the formal bedding at Washington Park. On Monday the florists were scattered all over the Fair, from the gunboat to the Ferris wheel. Among those who were registered in Chicago were: W. J. Stewart, Boston; W. A. Manda, Short Hills, N. J.; Grove P. Rawson, Elmira, N. Y.; Robt. Craig and wife, Philadelphia; W. H. Taplin, Holmesburg, Pa.; Wm. Schrav, St. Louis; ex-President W. R. Smith, Washington; F. W. Thielman, Brooklyn, N. Y.; Wm. Plumb, West Atlanta, Ga.; Joseph E. Monaghan, Quebec; W. L. Bates, Topeka, Kas.; R. Maitre, New Orleans; H. Dailledouze, P. Dailledouze, J. Sweiser, Flatbush, N. Y.; Robt. Kift and wife, Philadelphia; E. Hippard, Youngstown, Ohio; P. O'Mara, New York; H. Sunderbruch, Cincinnati; J. G. Esler, Saddle River, N. J.; Chas. Rauss, Detroit; Karl A. Kumpf, Buffalo; Frank McMahon, Seabright, N. J.; C. L. Allen, Floral Park, N. Y.; John Eblen, New Orleans; John Barclay, with John Gardiner & Co., Philadelphia.

Mrs. H. H. Berger and daughter, San Francisco, arrived in the city on the 14th inst. and are at the Auditorium Hotel. They missed the St. Louis convention, but will attend the Horticultural Congress and visit the World's Fair.

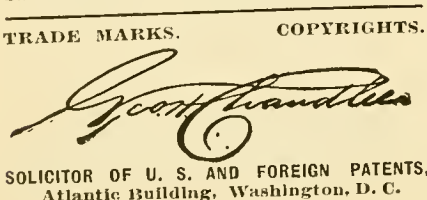
A party of the visiting members of the Society of American Florists called upon Director General Davis on Monday afternoon, August 13, and had the pleasure of a very pleasant informal interview, in which the Director General expressed his pleasure at meeting them, and spoke in words of high appreciation of the importance of floriculture and gratification at the work which members of the S. A. F. had done for that particular department of the World's Fair.

The Horticultural Society of Chicago will give a reception and banquet to the prominent people in attendance at the Horticultural Congress, Friday evening (18th inst.), at 7 o'clock, at the Union League Club.

Business is altogether flat and unprofitable, and there is nothing doing at all. Flowers are rather poor all around. July was not a very dull month compared with some previous seasons, but August is very flat. Roses are improving a little, though still small, but stock from young plants is better than it was. O. P. Bassett is sending in some nice stock, Beauties, Albany, etc., and also a few Mme. Caroline Testout. Perles continue fair in quality.

Asters are overwhelmingly plentiful, and sell but poorly; some dealers say less than previous years. Scabios is also plentiful; the white sells fairly for funeral work, but colors are not cared for. Gladiolus is very plentiful, but does not sell extra well; in a good many cases the flowers are rather small. Sweet peas are dropping out, and carnations are poor. Smilax is not very plentiful.

TRADE MARKS. COPYRIGHTS.



SOLICITOR OF U. S. AND FOREIGN PATENTS,
Atlantic Building, Washington, D. C.
(Send sketch or model for free examination as to patentability.)

PANSIES.

THE BEST ARE THE CHEAPEST.

SIZE is a strong point in Pansies; when you combine size, color, substance and form they are pretty near right. By careful hybridization and selection I have accomplished this, and the Pansies I send out this Fall will be an agreeable surprise, even to former customers. If you buy Pansies I would be pleased to correspond with you; they will be offered for sale from Aug. 20th to Dec. 1st, at 75c. per 100 or $5 per 1000. Terms cash with order or C. O. D. No seed for sale.

L. B. 496. ALBERT M. HERR, LANCASTER, PA.

ZIRNGIEBEL'S Giant Market and Giant Fancy PANSIES,

are without question the most popular strains in cultivation up to date.

New Seed ready now, in trade packages of either strain, at one dollar each.

PLANTS FOR SALE.

Denys Zirngiebel,
NEEDHAM, MASS.

PANSIES.

During the season we shall have plants of best German strain of Pansies, at lowest prices.

BRAUER & RICHTER,
McCONNELSVILLE, OHIO.

Swainsona galegifolia alba.

Nice young plants in 2¼in. pots, $3.00 per dozen. STOCK LIMITED.

EDWIN LONSDALE,
WYNDMOOR, near Chestnut Hill, PHILADELPHIA
Money Order Office Station "G" Phila.

SMILAX AND ASPARAGUS

TRAINED ON GREEN

SILKALINE

Are in the best possible condition for the market. For particulars address

JOHN C. MEYER & CO.,
289 DEVONSHIRE ST., BOSTON, MASS.

HEADQUARTERS for WATER LILIES

SEEDS, TUBERS AND PLANTS, ready for shipment at all seasons and to all parts of the world. Don't fail to inspect our Columbian Exhibit at the World's Fair.

Illustrated Catalogue on application.

WM. TRICKER, DONGAN HILLS NEW YORK.

SMILAX.

A large stock of strong well grown plants from 2¼-inch pots, at $2.00 per 100; $18.00 per 1000.

PANSY PLANTS for fall. Choicest strains.

CYCLAMENS, both 1 and 2 year bulbs. Prices on application.

CLEMATIS, large flowering, for fall delivery. A very large stock and assortment. Write for prices I can suit you both on plants and prices.

F. A. BALLER, Bloomington, Ill.

ESTABLISHED IN 1849.

G. BENARD, ORLEANS, FRANCE.

ROSES and YOUNG PLANTS a specialty.
Large stock of fine transplanted Ampelopsis Veitchii, at reduced prices according to quantity.
Catalogue sent free to applicants.
Agents for the United States.
C. RAOUX, 296 Pearl St., New York, N. Y.
E. BENARD, P. O. Box 620, San Diego, Cal.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

THE ONLY

Pansies Worth Raising.

for a professional florist are those which bring the highest price in the market when brought into competition with others.

Ask the auctioneers in New York what they know about my stock, and if their answer is favorable to me, you know where to get seed or plants.

SEED OF THIS YEAR'S CROP, $1.00 per package of about 2000 grains; $3.00 per ounce.

PLANTS FROM SEED BED SEPT. 1: Ordinary size $5 00 per 1000; large size $10.00 per 1000.

Large orders, fair discount. Ordinary size by mail $1.00 per 100.

CASH WITH ORDER.

No trash shipped, and all plants well packed.

CHRISTIAN SOLTAU,
199 Grant Avenue,
JERSEY CITY, N. J.

The seed may also be obtained of
JAMES M. THORBURN & CO., 15 John St., N. Y.

PANSY SEED. PANSY

The Jennings strain of large flowering and Fancy Pansies, new crop now ready, 8 pounds of seed and over 500,000 plants were sold last season. This strain is popular, and why? Because Florists can depend on getting only First Class Stock. I shall sell no other. My aim is to supply the best Finest Mixed, all colors, trade pkt. 300 seeds 25c.; 1000 seeds 50c.; 2000 seeds $1.00; per ounce $6.00. Pure White (the finest) trade pkt 50c. and $1.00; Golden Yellow, dark eye, trade pkt. 50c. and $1.00. Send for price list for other varieties. Pansy Plants, ready September 1 to December 25, any size wanted, cold frame size 65c. per 100 by mail; $5.00 per 1000 by express; 5,000 $20. Large flowering plants $1.00 per 100; $8.00 per 1000. Cash with order.

ADDRESS E. B. JENNINGS,
WHOLESALE PANSY GROWER,
Lock box 254 SOUTHPORT, CONN.
When writing mention the AMERICAN FLORIST.

ROEMER'S SUPERB PRIZE PANSIES

The finest strain of Pansies in the World.

Introducer and Grower of all the leading Novelties.

Catalogue free on application.

FRED. ROEMER, SEED GROWER,
QUEDLINBURG, GERMANY.

E. G. HILL & CO.,

Wholesale Florists

RICHMOND, INDIANA.

PANSIES.

Fresh Seed of my carefully selected strain of Pansies. Trade pkt. (1000 seeds), 50c. Plants ready in September.

ADOLF STAHL, Johnstown, Pa.
Mention American Florist.

EXTRA PANSY SEED.

Mammoth Sunbeam Strain.

A grand collection of giant flowering varieties, very large, of perfect form, and choice colors; carefully selected; receive high praise from my customers; better than ever; no finer strain offered anywhere. Every florist should sow of it. Trade pkt., 500 seeds, 25 cts.; 3 pkts. 60 cts.; 6 pkts. $1.00.

JOHN F. RUPP, Shiremanstown, Pa.

Always mention the American Florist when writing to advertisers.

A FIRST-CLASS CERTIFICATE OF MERIT

TO

H. BAYERSDORFER & CO.

FOR

THE BEST EXHIBIT OF

FLORISTS' SUPPLIES.

The only Certificate of Merit awarded for Florists' Supplies at the S. A. F. Convention at St. Louis.

We offer you the same quality of goods as comprised the above exhibit.

FIRST-CLASS IN QUALITY. **REASONABLE IN PRICE.**

H. BAYERSDORFER & CO.,

56 North 4th Street, - PHILADELPHIA, PA.

WHOLESALE ONLY. **CATALOGUES READY.**

Cape Flowers, new crop in best white quality at $1.00 the lb.; 10 lb. lots, $9 net.

Cycas Leaves (Sago Palms), natural prepared, equal to fresh cut in appearance, from 28-in. upwards, at 40c., 45c., 50c., 60c., 75c. and $1.00 each, according to length.

Metal Designs, Wreaths, Crosses, Anchors, etc. in the latest French styles, from 50 cents net apiece upwards.

Baskets of all styles, Plain and Fancy, for School Commencements, Dinners, Receptions, Favors, etc.

Supplies of all kinds, such as Bouquet Papers, Wax Paper, Foil, Immortelles, Letters, Wire Designs, Funeral Sheaves, Doves, etc. For prices consult our

Trade Catalogue, mailed free.

August Rölker & Sons,
136 & 138 W. 24th St., P. O. Station E. **New York.**

MARSCHUETZ & CO.,

Florists' Supplies,

23 & 25 N. 4th St., PHILADELPHIA, PA.

Send for Catalogue.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.



W. C. KRICK'S
PATENT
Florists' Letters, Etc.

Highest Award wherever exhibited.

These Letters are made of the best immortelles, wired on wood or metal frames having holes drilled in them to insert toothpicks, by which to fasten them in the design. All infringements prosecuted.

2-inch Letters, $3 00 per 100.
Postage, 15c. per 100.

Before purchasing send for free sample and Catalogue and compare with any other letter in the market.

W. C. KRICK, 1287 Broadway, BROOKLYN, N. Y.

Agents:—J. C. VAUGHAN, Chicago, Ill.; H. BAYERSDORFER & Co., Phila., Pa.; N. STEFFENS, N. Y.; AUG. ROLKER & SONS, N. Y.; ED. S. SCHMID, Washington, D. C.; JAMES VICK'S SONS, Rochester N. Y.; T. W. WOOD & SONS, Richmond, Va.; J. A. SIMMERS, Toronto, Ont.

Mention American Florist



WHITE DOVES
FOR FLORISTS.

Largest and finest stock in the United States. Write for prices to

S. J. RUSSELL,
850 Montgomery St., Jersey City, N. J.

FOR SALE BY Messrs. F. E. McAllister, A. Herrmann, N. Steffens and Reed & Keller, New York; W. C. Krick, Brooklyn, N. Y.; H. Bayersdorfer & Co., Ernst Kaufmann and Marschuetz & Co., Philadelphia, Pa.; C. Ribsam & Sons, Trenton, N. J.; J. M. McCullough's Sons and B. P. Critchell & Co., Cincinnati, O.; J. C. Vaughan, Chicago, Ill.; Wisconsin Flower Exchange and Currie Bros., Milwaukee, Wis.; C. A. Kuehn, St. Louis, Mo.; C. Young & Sons Co., Wm Ellison and Jordan Floral Co., St. Louis, Mo.; Ed. S. Schmid, Washington, D. C.; G. W. Currey & Co. and Eckhardt & Co., Nashville, Tenn.; T. W. Wood & Sons, Richmond, Va.; U. J. Virgin, New Orleans, La.; D. B. Long, Buffalo, N. Y.; F. C. Huntington & Co., Indianapolis, Ind.; J. A. Simmers, Toronto, Ont.

Mention American Florist

BOSTON FLORIST LETTER CO.,
13 Green Street, BOSTON, MASS.
Address all correspondence to 1 Music Hall Place.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1½-inch and 2-inch, $2.00 per 100. Patent fastener with each letter.

With orders for 500 letters we give away a nicely stained and varnished box. See cut in next week's American Florist.

Our letter is handled by all the wholesalers in Boston.

AGENTS: Marschuetz & Co., 25 N. 4th St., Philadelphia, Pa.; A. Rolker & Sons, New York; F. E. McAllister, 22 Dey St., N. Y.; Ernst Kaufmann & Co., 113 North Fourth Street, Philadelphia; H. Bayersdorfer & Co., Philadelphia, Pa.; A. D. Perry & Co., 33 Warren Street, Syracuse, N. Y.; A. C. Kendal, 115 Ontario St., Cleveland, O.; E. H. Hunt, 79 Lake St., Chicago; Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.; H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.; T. W. Wood & Sons, 6th and Marshall Sts., Richmond, Va.; Jas. Vick's Sons, Rochester, N. Y.; Dan'l B. Long, Buffalo, N. Y.; C. A. Kuehn, St. Louis. F. C. Huntington & Co., Indianapolis, Ind.

J. A. Simmers, Toronto, Ont., Agt. for Canada.

ERNST KAUFMANN & Co.,

Florists' Supplies,

113 NORTH 4TH STREET,
PHILADELPHIA, PA.

OUR

Sash Lifter AND Hinges

will do the work and cost you less than any other. Send your name and address and we will mail you description and price.

BAY STATE HARDWARE CO.
272 Freeport Street, BOSTON, MASS.

Mention American Florist.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

Toronto.

Everybody is praising the convention number and Columbian souvenir of the AMERICAN FLORIST. It certainly must be acknowledged that it beats the record in the line of horticultural newspapers.

The Toronto Gardeners' and Florists' Association had its first annual picnic on Wednesday. The members, their wives and children, their sweethearts, brothers, sisters, cousins, aunts, etc., turned out in great force, all bound to have a good time. The sky was cloudless and the place selected all that could be desired—shady and secluded. The cricket match between the east and west siders was the first event. The ground was not exactly as level as a billiard table and the batters were a little uncertain whether the ball would light on their pet corns or on their heads, but the result of the match was rather a surprise and a source of not a little pride to the winners. The east end eleven contained four or five members of a crack cricket club who do a lot of practicing and it was almost a foregone conclusion that the west end would be snowed under, but owing to careful play, hard hitting and lots of good luck the west end managed to come in at the finish two runs ahead—37 to 35—the east enders coming in for lots of chaff.

The tug of war also between the east and west created lots of fun and excitement, and in this event the west (it is said with the assistance of the ladies) redeemed their honor and managed to pull the east end over the mark twice out of three times. Children's races, ladies' races, fat men's races, thin men's races, bald headed men's races and three legged races were also participated in until dinner was called, when all sat down with keen appetites and polished off all the good things the committee had provided. Those who could fling the light fantastic toe then adjourned to the verandah of a large old fashioned house near by and danced till dark, when all returned home well satisfied with the first attempt of the association in this line of amusement.

Sir D. S. Macpherson has presented his large collection of palms, cycads and greenhouse plants to the Horticultural Gardens on certain conditions. Needless to say that the gift will be accepted and conditions complied with. With the present mayor and most of the aldermen horticulture is quite a minor consideration in municipal matters, but it is sincerely to be hoped that John Chambers will be able to drive into their thick skulls the value of the gift and make them provide a decent place to put it in. If John cannot do it they are past redemption indeed. E.



FLORISTS' HOSE,
Made by E. W. Holt, member of the Society of American Florists.
Goodyear Rubber Store,
2 W. 14TH ST. NEW YORK.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

SPECIAL -$10.00- OFFER,
FOR A LIMITED PERIOD ONLY.

To introduce our specialties we make this special offer of

1 STOTT DISTRIBUTER.
1 STOTT SPRAYER (The best made.)
20 lbs. KILLMRIGHT (Non-poisonous, but Death to Insects.)
FOR $10 CASH.

Will clean your Greenhouses and out-door plants of Aphis, Mealy Bug, Caterpillar and other insects. Order through your seedsman, or direct of

ENDORSED BY LEADING FLORISTS EVERYWHERE.
WITH PROPER USE, SATISFACTION GUARANTEED.

THE STOTT GARDEN IMPL'T CO.,
136 Liberty Street,
NEW YORK

TO STOTT GARDEN IMP'T CO., 136 Liberty Street, New York.
Dear Sirs:—We have been using your **Distributer and Killmright** for six months and cousider it a good thing. It is the best thing ever got out. For roses it is particularly good. It cures a rose plant of black spot and mildew and keeps them in a healthy and growing condition. We never use tobacco smoke now. It will certainly ultimately kill the mealy bug. We will keep it right along and want nothing else. Signed, BOLANZ BROS., Akron, O.

HOW TO GROW CUT FLOWERS.
A PRACTICAL TREATISE ON
THE CULTIVATION OF THE ROSE,
And Other Flowering Plants for **Cut Flowers**, sent to any address upon receipt of **$2.00**. M. A. HUNT, Terre Haute, Ind.



SCOLLAY'S
IMPROVED
PUTTY BULB,
For Glazing Sash, Etc.
— ALSO THE —
Patent Plant Sprinkler
For sale by your Seedsman, or sent, postpaid, for $1.00.
JOHN A. SCOLLAY,
74 & 76 Myrtle Ave.,
BROOKLYN, N. Y.
Send Stamp for Catalogue.

CUTS!



Wood Engraving,
Zinc Etching,
Half-Tone,
Wax Engraving, Photo-Engraving,
Designing.
MANZ & CO.,
183 Monroe Street, CHICAGO. ENGRAVERS.
Mention American Florist.

THE PERFECT DRAINAGE
BENCH TILE
For circulars, etc., address
W. P. Wight, Upland Green Houses,
Send your business card. MADISON, N. J.

LITTLE'S ANTIPEST.
— A —
Valuable Discovery of the 19th Century.
SILVER MEDAL AWARDED
— BY THE —
CALIFORNIA STATE FAIR OF 1890.

This preparation is a sure destroyer of the **Scale, Wooly Aphis** and **Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure** and **Cheap.** No fruit grower or florist should be without it.

Send for Circulars and Price List.
R. W. CARMAN, General Agent,
291 AMITY STREET,
FLUSHING, Queens, Co., N. Y.

IMPROVED GLAZING.
Zinc Joints for butting glass without laps. No leakage. No sliding of glass. Practically air tight. Keeps out cold winds, thereby saving fuel. No laps, saves enough glass to pay for the zincs. No breakage of glass on account of frost or ice. Some of the largest growers in the country are using "Gasser's Patent Zinc Joints" with entire satisfaction.
Write for sample and price list.
J. M. GASSER, FLORIST,
101 Euclid Ave.. CLEVELAND, O

Vaughan's Solid Steel Trowel.
THE BEST IN THE WORLD.

NEVER WEARS OUT.
Price, 50c.; by mail, 60c.
VAUGHAN'S SEED STORE,
NEW YORK, 26 Barclay Street. CHICAGO, P. O. Box 668.

WATER

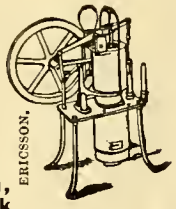
For Your GREEN HOUSE, ROSE HOUSE, NURSERY,

Conservatory, Lawn, House, Garden, Stock or any other purpose.

Send for Illustrated Catalogue OF THE

DE LAMATER-RIDER AND DE LAMATER-ERICSSON

PUMPING ENGINE.



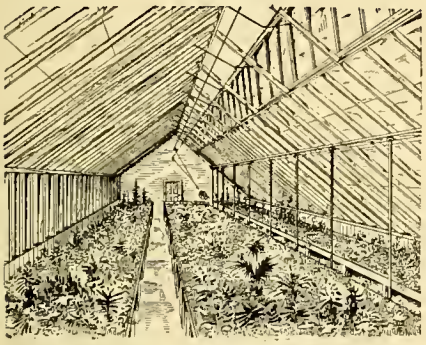
HOT-AIR PUMPING ENGINE.

Their operation is so simple and safe that a child can run them. They will pump water from shallow streams or any kind of well. They can be arranged for any kind of fuel. Capacity 1,500 to 30,000 gallons of water a day, according to size.



The De Lamater Iron Works,
87 South Fifth Avenue,
NEW YORK, N. Y.

THE CHAMPION



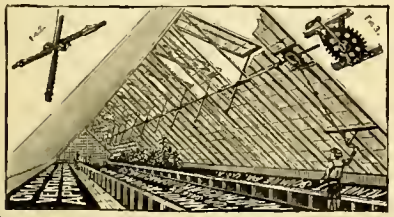
Automatic Ventilator.

The cheapest, easiest to operate, and by far the best machine in the market. Don't buy a Ventilator until you have seen my illustrated descriptive circular, which will be sent you free, giving prices, etc. Also Champion Soil Pulverizer and Sifter.

Address, **E. E. WOLF,**
Box 114. SPRINGFIELD, O.

Mention American Florist.

SUCCESSFUL GROWERS
USE THE BEST VENTILATING APPLIANCES.



The Champion Ventilating Apparatus
cannot be equaled in point of
CHEAPNESS, DURABILITY OR EFFICIENCY.
Circular is yours for the asking. Address
AMERICAN ROAD MACHINE CO.,
. . . . Kennett Square, Pa.

EVANS' IMPROVED
CHALLENGE VENTILATING APPARATUS

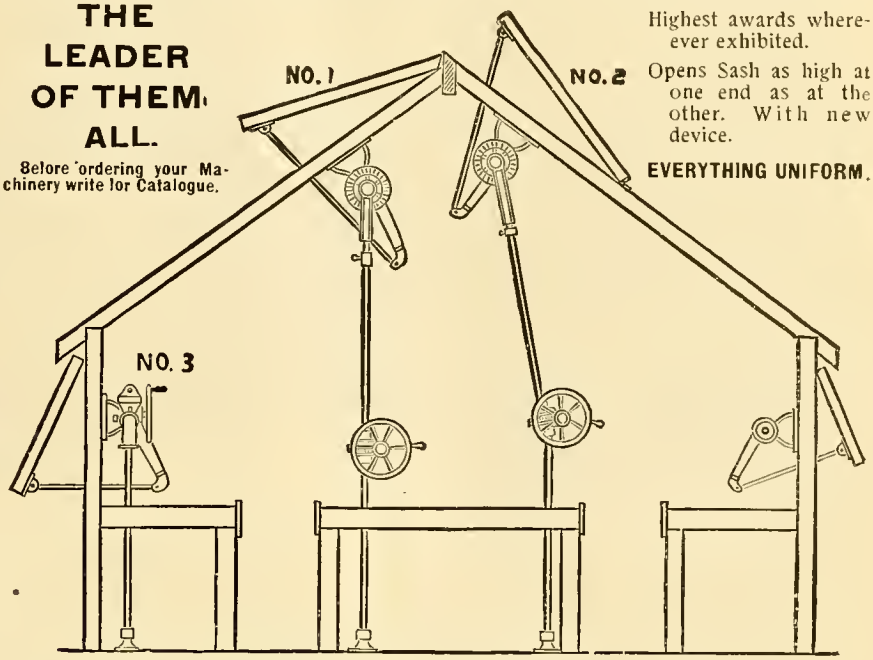
Write for Illustrated Catalogue.
QUAKER CITY MACHINE WORKS, Richmond, Ind.

FLORAL DESIGNS
The Cut Flower Worker's Friend. Fine book of 160 pages. Send $3.50 for it, to
J. HORACE McFARLAND, Harrisburg, Pa.

STANDARD VENTILATING MACHINERY,

THE LEADER OF THEM ALL.

Before ordering your Machinery write for Catalogue.



Highest awards wherever exhibited.

Opens Sash as high at one end as at the other. With new device.

EVERYTHING UNIFORM.

E. HIPPARD, YOUNGSTOWN, OHIO.



"God helps those who help themselves." And he who uses THE "NEW DEPARTURE" (MEAT SAW)

VENTILATING APPLIANCE

helps himself and those who help him in his labors, and is therefore doubly blessed. Send for price and description.

J. D. CARMODY, Evansville, Ind.

Or call and see the man and machine at his greenhouse office, located on the lawn west front of Horticultural Building, World's Fair grounds, Chicago, Ill.

HERE WE ARE AGAIN.



Send on your orders for Sash Bars and Ventilating Sash. All kinds on hand.

PROMPT ATTENTION.

Itemized Estimates given, and cost of freight guaranteed.

CORRESPONDENCE SOLICITED.

Clear Cypress,

from bottom gutter up is my specialty.

Lyman Felheim,
ERIE, PA.

JULES DE COCK'S NURSERIES
GHENT, BELGIUM.

OFFER TO THE TRADE OF GOOD PLANTS.
10,000 Araucaria Excelsa; 100,000 Begonia Bulbs.
30,000 Azalea Indica; 20,000 Azalea Mollis.
100,000 Palms, different sorts, all sizes.
10,000 Laurel Bays, Standards and Pyramids.

J. N. STRUCK & BRO.

Manufacturers of

• CYPRESS •

Greenhouse Material,

LOUISVILLE, KY.

STANDARD HOSE MENDER.



The only Mender using ordinary galvanized wire No. 14, instead of expensive bands. Any person can handle it with perfect ease. Thousands in use and all testify to its Wonderful Merits.

Sample Box, by Mail, 50 cts.

E. HIPPARD, Youngstown, Ohio.

Mention American Florist.

Baltimore.

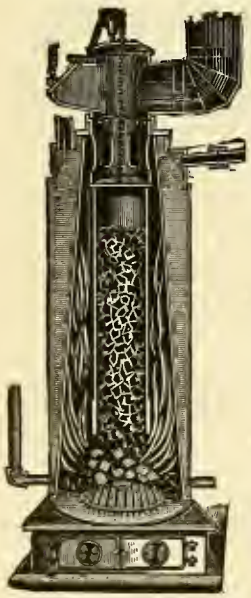
The fact of the matter is the florist who has not set his face westward is about as hot and uncomfortable as possible, and he has the further discomfort of knowing that his stay at home is for nothing. The weather is too hot and dry for weeds or flowers either to grow out of doors without plentiful watering, and, between a tight money market and the absence of most of his customers at summer resorts, he is without store business. But florists are an uncomplaining lot generally, and Baltimore florists, though great in many ways, are least in this. You can't get a really serious howl out of them, even with all the present drawbacks.

Prices are without change. Sweet peas have disappeared, but asters are plentiful. Roses continue in fair supply and some surprisingly good buds are to be had for the season, the product of Baltimore County, too. Smilax is to be had in any quantity at $15 to $20, and common outside flowers can be had at almost any price. MACK.

DO YOU WANT a list of the leading cemetery superintendents? You will find such a list in our new trade directory and reference book.

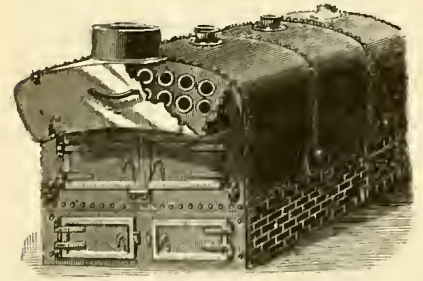
YOU CAN'T AFFORD to do business without a copy of our trade directory and reference book.

THE AMERICAN FLORIST and *Gardening* together to one address for $1.75. Send orders to the American Florist Co.

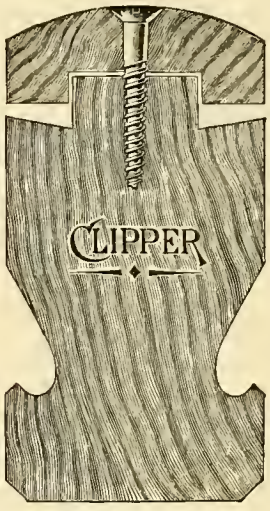


THE WILKS HEATER,
FOR HEATING
GREENHOUSES, STORES, DWELLINGS, ETC.
Manufactured by THE S. WILKS MF'G CO. 123 S. Clinton St. CHICAGO, ILL.
SEND FOR CATALOGUE.

KROESCHELL BROS.
IMPROVED
Greenhouse Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and bands of steel, water space all around front, sides and back). Write for information.



Mention American Florist.

THE "LOCKLAND"
Sash Bars
ARE ALWAYS SATISFACTORY.

This cut represents our improved Clipper Bar for Butted Glass roof—putty to be used under glass only.

GUTTER MATERIAL, RIDGES, SASH, ETC.
The finest CLEAR CYPRESS used.
Write for circulars and estimates. . . .

LOCKLAND LUMBER CO.
. Lockland, O.

"Standard" Flower Pots.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Pottery Company,
BRANCH WAREHOUSES: 713, 715, 717 & 719 Wharton St., Philadelphia, Pa.
Randolph Ave. and Union St., Jersey City, N. J.
Jackson Ave. and Pearson St., Long Island City, L. I.

STANDARD FLOWER POTS
Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.
A. H. HEWS & CO., N. Cambridge, Mass.

Standard Flower Pots.

We wish to notify the trade that this summer we have made great improvements in machinery and have also discovered a better clay, so that we are now manufacturing FLOWER POTS that can't be beat. We have the assurance of a host of our customers, that our make are the best in the market. Bear in mind that freight rates are very low from this point, and we claim that our way of packing saves you freight charges. Send for circulars, or we will send you figures on any quantity you want.
SIPFLE, DOPFFEL & CO., SYRACUSE, N. Y.

STANDARD FLOWER POTS.
OLD RELIABLE MAKE OF
ELVERSON, SHERWOOD & BARKER.
Write for Catalogue and Price List.
PITTSBURGH CLAY MFG. CO. New Brighton, Pa.

STANDARD FLOWER POTS
Our new **Pottery,** new **Machinery,** the very **best Clay** in the **Country,** and our new **Patent Kilns,** all combined, make the **best Standard Pot in the market.** Send for price list.
PARMENTER MF'G COMPANY,
GEORGE MESSINGER, Manager. East Brookfield, Mass.

STANDARD FLOWER POTS.
Price List.

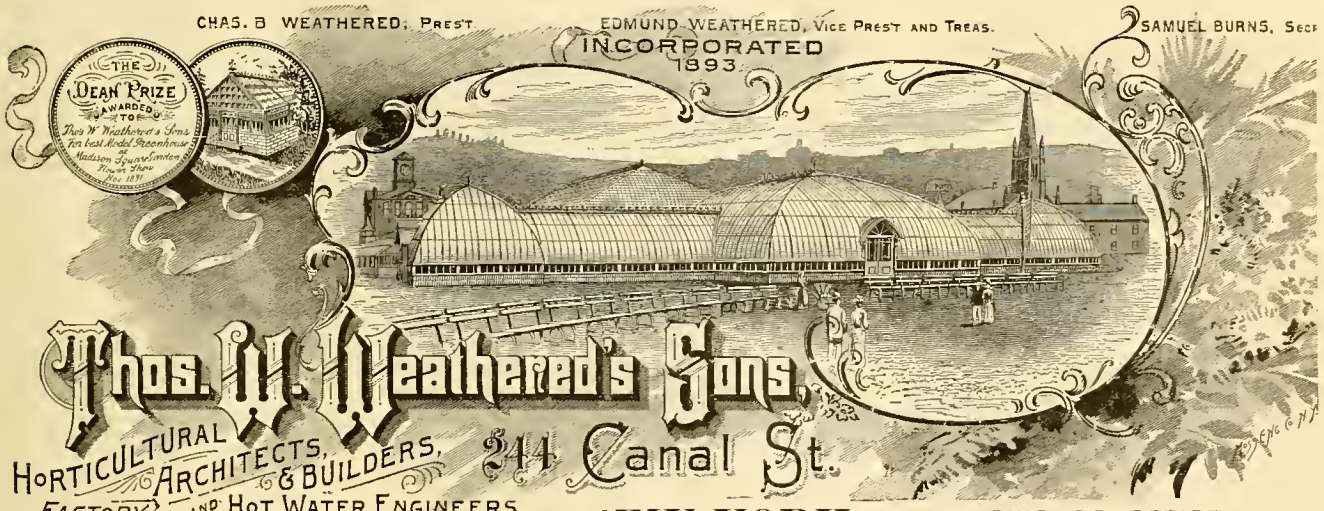
2 -inch,	Per 1000 $3.25	7-inch,	Per 100 $ 3.50
2½-inch,	" 3.50	8-inch,	" 5.00
2½-inch,	" 4.00	9-inch,	" 7.50
3 -inch,	" 5.00	10-inch,	" 10.00
3½-inch,	" 7.25	11-inch,	" 15.00
4 -inch,	" 9.00	12-inch,	" 20.00
5 -inch,	" 13.80	14-inch,	" 40.00
6 -inch,	" 22.00	16-inch,	" 75.00

Terms cash, f. o. b. Address
HILFINGER BROS. POTTERY, Fort Edward, N. Y.

GURNEY Hot-Water Heaters FOR Greenhouses.
Send for a copy of our book "How best to heat our houses."
GURNEY HOT-WATER HEATER CO.
163 FRANKLIN ST., BOSTON.
Branch Office: 59 Wabash Avenue, Chicago, Illinois.
Selling Agencies: Johnson & Co., 71 John St., New York City. J. C. F. Trachsel, 246 Arch St., Philadelphia.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Please mention the AMERICAN FLORIST every time you write to an advertiser.



Thos. W. Weathered's Sons,

HORTICULTURAL ARCHITECTS, & BUILDERS, AND HOT WATER ENGINEERS.

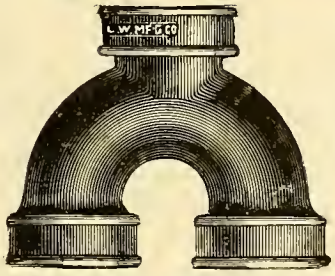
FACTORY, 196 to 240 Orient Ave. Jersey City, N. J.

244 Canal St. NEW YORK.

CHICAGO OFFICE: 619-620 Manhattan Bldg.

Greenhouse Pipe and Fittings





Large quantities of our Pipe are in use in Greenhouses throughout the West, to any of which we refer as to its excellent quality.

Pipe can be easily put together by any one, very little instruction being needed.

GET THE BEST!

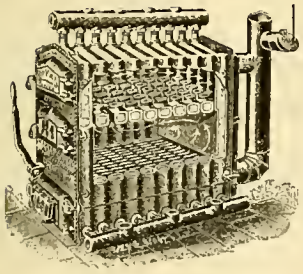
Hot-Water Heating, in its Economy and Superiority, will repay in a few seasons its cost.

Mention American Florist.

L. WOLFF MFG. CO., 93 to 117 W. Lake Street, CHICAGO.

WRITE FOR ILLUSTRATED CIRCULAR.

ROYAL HEATERS
TRADE MARK
UTICA, N.Y.



D. H. ROBERTS,

159 and 161 S. Fifth Avenue, - NEW YORK,

NATURAL GAS MADE GLASS,

FOR ROSE HOUSES, CONSERVATORIES, ETC., ETC.

☞ Look at our WORLD'S FAIR EXHIBIT in Horticultural Building.

HART & CROUSE,

UTICA, N. Y.

FRENCH GLASS For CONSERVATORIES, ROSE HOUSES, Etc. Etc.

VANHORNE, GRIFFEN & CO.,

Importers of PLATE and WINDOW GLASS. Manufacturers of BENT GLASS and FRENCH MIRRORS.

131-133-135-137 FRANKLIN STREET, NEW YORK.

Note—Imported Glass is used in the best grade of Greenhouse building.



Pat. 1882, '85, '86, '88, '90, '91.

FOR WATER, AIR, STEAM, ACIDS, OILS, LIQUORS, GAS, SUCTION,

And for any and every purpose for which a hose can be applied.

Sizes, ⅛-inch to 42 inches diameter.

The making, vending or use of any Serviceable Armored Wire Bound Hose not of our manufacture is an infringement on one or more of our Patents. The rights secured to us render each individual dealer or user responsible for such unlawful use with all the consequences thereof. For prices and discounts address WATERBURY RUBBER CO., Sole Mf'rs and Owners of all the *Sphincter Grip Armored Hose Patents*, 49 Warren Street, New York.

J. C. VAUGHAN, Agent, CHICAGO.

VICTOR SPRAY PUMP.

The most wonderful pump ever invented. Requires no foot-rest or support. Send for prices.

HENION & HUBBELL, 55 N. Clinton St., Chicago, Ill.

GLASS. ROCK BOTTOM PRICES. Send for Estimate. Satisfaction Guaranteed.

REED GLASS CO.,

65 Warren St., and 46, 48 & 50 College Place, New York City.

MAIL LOCK THE DOOR BEFORE THE HORSE IS STOLEN. DO IT NOW.

JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

Always mention the AMERCAN FLORIST when writing to advertisers.

Index to Advertisers.

Abel C C & Co.....43 47
Adv. Rates, etc.....44
American Boiler Co ...56
American Road Mach Co.....53
Baller F A.....50
Barnard W W & Co.....46
Bay State Hdw Co.....51
Bayersdorfer H & Co ...51
Benard G.....50
Berger H H & Co.....46
Bock Wm A.....47
Bonsall Jos E & Son 45
Boston Letter Co 51
Brauer & Richter.....50
Burns & Raynor.....45
Burrow J G.....44 46
Burton John.....49
Carman R W.....52
Carmody J D.....53
Chalk James.....42
Chandlee Geo H 50
Connell Benj.....47
Corbrey T J.....45
Cox Seed & Plant Co....46
Crabb & Hunter.....49
Crosman Bros.....47
Cummings & Ware.....44
De Cock Jules.....53
De Lamater Iron Wks..53
De Mulder Th D.....47
De Smet Louis.....43
Dillon J L.....49
Downes W J.....43
Dreer H A.....43 48
Elliott W H.....44
Ellison Wm.....45
Felheim Lyman.....53
Fisher David.....44
Forstermann I.....48
Fuchs Albert.....43
Gasser J M.....52
Gonzalez & Co.....46
Goodyear Rubber Store.....52
Gurney Heater Co 54
Hail Ass'n.....43 55
Haucock Geo 47
Hart James.....45
Hart Michael A.....45
Hart & Crouse.....55
Hartford H E.....44
Helte Floral Co.....44
Henion & Hubbell.....55
Herr Albert M.....50
Hews A H & Co.....54
Hilfinger Bros.....54
Hill E G & Co.....50
Hippard E 53
Hitchings & Co 56
Hooker H M Co.....56
Horan Edw C. 45
Hulsebosch Bros 46
Hunt E H.....45
Hunt M A.....49 52
Hunter & Purdy.....45
Jennings E B.....50
Joosten C H.....47
Kaufmann Ernst & Co..51
Kemble Floral Co 49
Kennicott Bros.....45
Knapp O R.....46
Koch Ludwig.....47
Koffman E.....44
Krick W C.....51
Kroeschell Bros 54
Kuehn C A.....45
Kuyk K J 48
La Roche & Stahl....41 49
Lehnig & Winnefeld....47
Lippincott Miss C H....48
Lockland Lumber Co....54
Lombard R T 47
Long Dan'l B.....45
Lonsdale Edwin.....44 50
Lord & Burnham Co....56
McCarthy N F & Co.....45
McFarland J H.....53
McFarland J H Co.....44
MacBean A S.....49
Manz J & Co.....52
Marschuetz & Co.....51
Martens I.....46
Meyer John C & Co. ...50
Michel Plant & Bulb Co 46
Millang Bros 45
Miller Geo W.....49
Moffatt G J.....46
Moninger Jno C ...56
Montgomery Chas E....48
Newell & Kidd.....49
Niles Centre Floral Co..45
Oil City Greenhouses....42
Olson M 45
Ouwerkerk P.....47
Parmenter Mfg Co.....54
Peck & Sutherland.....45
Pennock C J.....47
Pennock Sam'l S 44
Pierson A N.....49
Pierson F R Co....44 47 48
Pittsburg Clay Mfg Co..54
Prince A G & Co 45
Quaker City Mach Co...53
Randall A L 45
Raoux C.....50
Reck John 49
Reed Glass Co.....55
Reed & Keller.....52
Reimschneider Ernst...47
Roberts D H.....55
Roehrs T. eo.....45
Roemer Fred.....50
Rolker A & Sons.....51
Rupp John F.....50
Rupp H S & Sons.....47
Russell S J.....51
Sander & Co.....48
Schulz Jacob.....49
Scollay John A. 52
Sebire P & Sons 43
Shelmire W R.....47
Sheridan W F.....45
Sherwood Hall Nur Co..44
Siebrecht & Wadley.....48
Siffle. Dopffel & Co.....54
Situations, wants.....42
Smith Henry.....49
Smith Nathan & Son....47
Soltau Chr.....50
Spooner Wm H.....49
Stahl Adolph.....50
Stoldt C.....47
Storrs & Harrison Co...49
Stott Garden Imp Co....52
Struck J N & Bro.....53
Sunderbruch H L.....45
Tricker Wm.....50
Van Coppenolle Ed.....47
Van Horne Griffen & Co 55
Vaughan J C..46 52
Waterbury Rubber Co..55
Weathered's Sons T W..55
Weaver Elmer J.....46
Weeber & Don.....43
Welch Bros.....45
Whilldin Pot Co 54
Wight W P.....52
Wilks S Mfg Co.....54
Winter N D.....42
Wisconsin Flower Ex..46
Wolf E E 53
Wolff L Mfg Co.....55
Wood Bros.....49
Zirngiebel D.....50

PLEASE WRITE on your printed letter head when addressing our advertisers. If you have no printed letter head, then enclose your business card or bill head.

GoodelHH 15
Mass Agri Col

CYPRESS GREENHOUSE MATERIAL

CLEAR CYPRESS SASH BARS

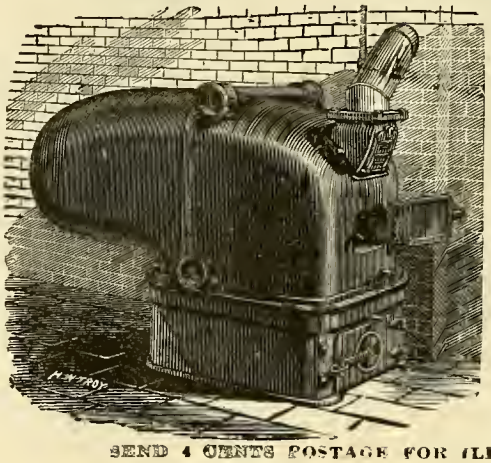
BED AND VENTILATING SASH

JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

Mention American Florist.

GREENHOUSE HEATING AND VENTILATING

Horticultural Architecture and Building.



HITCHINGS & CO.

Established 1844.

233 Mercer St., New York.

FIVE PATTERNS OF BOILERS.

NINTEEN SIZES.

Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc, of Iron Frame Construction, Erected complete, or the Structural Iron Work shipped ready for erection.

Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Top.

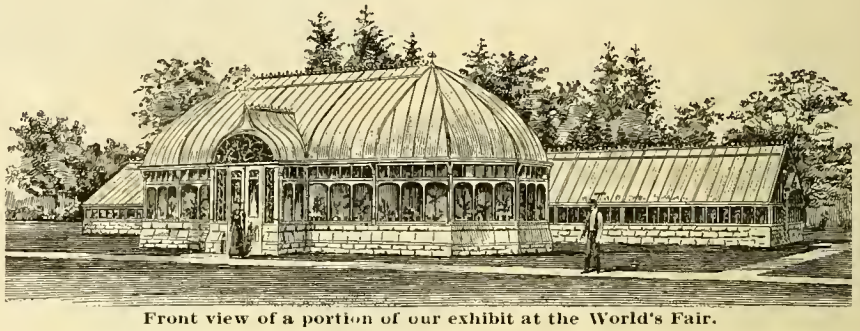
SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.

LORD & BURNHAM CO.

Horticultural Architects and Builders,

STEAM AND HOT WATER HEATING ENGINEERS.

☞ Plans and estimates furnished on application.



Front view of a portion of our exhibit at the World's Fair.

. . . SEND FOUR CENTS POSTAGE FOR ILLUSTRATED CATALOGUE. . . .

LORD & BURNHAM CO., Irvington-on-Hudson, N. Y.

Mention American Florist.

STEAM · AND · HOT · WATER · HEATERS

FOR

GREENHOUSE HEATING

156

DIFFERENT SIZES.

American Boiler Company.

BOSTON,	NEW YORK,	CHICAGO,	DENVER,	SAN FRANCISCO.
195 Ft. Hill Square.	94 Center St.	34-36 Dearborn St.	Mining Exchange Bldg.	80 Crocker Bldg.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO,

NATURAL GAS MADE GLASS

FOR GREENHOUSES.

Write for latest prices.

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. IX **CHICAGO AND NEW YORK, AUGUST 24, 1893.** **No. 273**

THE AMERICAN FLORIST

Copyright 1893, by American Florist Company. Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.
322 Dearborn Street, Chicago.

Subscription, $1.00 a year. To Europe, $2.00.

Address all communications to

AMERICAN FLORIST COMPANY,
P. O. Drawer 164, CHICAGO.

Eastern Office: 67 Bromfield St., Boston.

SOCIETY OF AMERICAN FLORIST.

WM. R. SMITH Washington, D. C., president; PROF. WM. TRELEASE, St. Louis, Mo., vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass, secretary; M. A. HUNT, Terre Haute, Ind., treasurer.

CONTENTS.

Horticultural Congress banquet 57
J. T. Anthony (portrait) 59
Conservatories at Humboldt Park, Chicago (illus) 61
The present of floriculture 62
Dwarfing plants in Japan 62
Fancy bedding in Garfield Park, Chicago (illus). 63
Carnations—Seasonable hints 64
Miscellaneous seasonable hints 64
Philadelphia 64
Small group of decorative plants (illus) 65
Boston 66
Buffalo 66
Recent legal decisions 66
A world's horticultural society 68
Florists' Hail Association 70
Baltimore 72
St. Louis 74
Toronto 76
Chicago 78
California Nurserymen's Association 78

THE CANNAS at the World's Fair are beginning to present a fine appearance now, and will soon make a gorgeous show. Among the deep colored varieties Alphonse Bouvier is very conspicuous for general excellence. The color is very rich, the flowers are carried well above the foliage and the habit seems all that could be desired. We shall treat of each of the varieties in detail in an early issue, and shall also soon publish engravings from photographs of several of the beds. The aquatics are beginning to bloom and attract much attention. The attendance at the Fair is improving steadily as the date for closing draws nearer and has exceeded 100,000 each day for the past two weeks.

THE CONVENTION, the Horticultural Congress and the World's Fair was a combination that made a lively two weeks for those who attempted to attend to all these attractions. And it made it lively too for those connected with this journal in the effort to properly report all that would be of interest to the florists of America. But we believe we made a fair attempt. Our report is practically completed in this issue.

Horticultural Congress Banquet.

Last Friday evening (August 18) the distinguished visitors in attendance at the World's Fair Horticultural Congress were given a reception and banquet at the Union League Club, by the Horticultural Society of Chicago. It was a brilliant company and it is probable that many years will elapse before such a large number of men whose names stand high on the roll of those who have done lasting service to the "Art that doth mend nature" can again be assembled together at one time. Covers were laid for 100 and every seat was occupied. The tables were elaborated decorated with flowers contributed by various members of the Florist Club and arranged by President P. J. Hauswirth, while in the corners of the room stood numerous handsome palms from Mr. J. T. Anthony's collection, and the huge mantel at one end of the hall was handsomely decorated with plants supplied by the same gentleman.

Among those present were Henri L. de Vilmorin, head of the firm of Vilmorin-Andrieux & Co., and an officer of the Legion of Honor, Paris, France; Prof. Dr. L. Wittmack, Professor of Botany at the University of Berlin, Germany, and editor of *Gartenflora;* M. Lemoine, superintendent of the parks of Paris, now in charge of the French horticultural exhibit at the World's Fair; E. H. Krelage, Haarlem, Holland; J. Pederson-Bjergaard, Copenhagen, Denmark; Hon. Thomas B. Bryan, Chicago, vice-president of the World's Congresses; W. Atlee Burpee, Philadelphia, president of the American Seed Trade Association; P. J. Berckmans, Augusta, Ga., president of the American Pomological Society; Robert Craig, Philadelphia, ex-president of the Society of American Florists, vice-president of the Pennsylvania Horticultural Society, president of the Florists' Club of Philadelphia, and superintendent of Pennsylvania's horticultural display at the World's Fair; R. H. Warder, son of the late John A. Warder, so well known to every lover of trees and plants; Henry Izawa, in charge of the horticultural exhibit of Japan at the World's Fair; S. Tomiyami, Kobe, Japan; H. Augustine, president of the Illinois State Horticultural Society, and ex-president of the American Association of Nurserymen; Prof. Wm. Trelease, Director of the Missouri Botanical Garden, St. Louis; Wm. R. Smith, president of the Society of American Florists, and superintendent of the U. S. Botanical Garden, Washington; J. M. Samuels, Chief of the Department of Horticulture at the World's Fair; John Thorpe, Chief of the Bureau of Floriculture at the World's Fair, and ex-president of the Society of American Florists; R. Ulrich, landscape architect at the World's Fair; C. L. Watrous, Des Moines, Ia., ex-president of the American Association of Nurserymen; T. T. Lyon, the eminent horticulturist of Michigan; Prof. Lorado Taft, of the Michigan Agricultural College; Prof. L. H. Bailey, of Cornell University; Dr. F. M. Hexamer, editor of the *American Agriculturist;* E. G. Hill, Richmond, Ind., president of the American Carnation Society, and ex-president of the Society of American Florists; M. A. Hunt, Terre Haute, Ind., president of the American Rose Society, and treasurer of the Society of American Florists; W. H. Ragan, chief of the bureau of pomology of the World's Fair, and secretary of the Indiana State Horticultural Society; James Dean, Bay Ridge, N. Y., ex-president of the Society of American Florists, and superintendent of the New York state horticultural display at the World's Fair; W. K. Harris, Philadelphia, president of the American Chrysanthemum Society; Ludwig Schiller, superintendent of Germany's horticultural display at the World's Fair; Wm. McMillan, superintendent of the parks of Buffalo, N. Y.; Warren H. Manning, Reading, Mass.; J. C. Vaughan, Chicago, chairman of the Horticultural Congress, and retiring president of the American Seed Trade Association; J. T. Anthony, Chicago, president-elect of the Society of American Florists; F. R. Pierson, Tarrytown, N. Y.; J. A. Pettigrew, superintendent of Lincoln Park, Chicago; W. H. Chadwick, president of the Horticultural Society of Chicago; Robert Kift, Philadelphia, vice-president of the Society of American Florists; F. W. Barteldes, Lawrence, Kans., ex-president of the American Seed Trade Association; A. L. Don, secretary of the American Seed Trade Association; W. C. Egan, secretary of the Horticultural Society of Chicago; P. J. Hauswirth, president of the Chicago Florist Club; and a host of others whom it would take columns of space to mention.

After a pleasant hour spent in making new and renewing old acquaintances and friendships in the reception room the company sat down to a banquet that sustained the fame of the Union League Club.

Upon the arrival of the coffee and cigars President Chadwick called the assemblage to order and on behalf of the Horticultural Society of Chicago welcomed the visitors in the following words:

PRESIDENT CHADWICK:—It is a great pleasure and privilege to greet you this evening with words of welcome. Some of you are old friends and acquaintances from near by; others come from the shores of the Atlantic or the more distant Pacific, but all, I am sure, join in extending a most hearty welcome to such of our guests as have crossed the oceans to survey the crowning creation of the nineteenth century, the World's Columbian Exposition, and to assist in the work of its auxiliary congress, where the record of the achievements and progress of man is being written in undying words. I

trust that the result of the various congresses will be a grand fruition, for certainly in the scope of its subjects and its world-wide participants it has never been equalled.

The abstract and the concrete thus go down to posterity hand in hand, and of these twins, the evolution of hand and brain of man, the age may be justly proud. You, our guests, who have traveled to our smoky city, should not forget that its offspring is yonder glorious white city which, like its parent, sits on the shore of a great inland sea, and both cities, mother and child, equally command your attention. A commercial town, with a merchant marine second in tonnage to no port in the world but London, with her hands, as you see, full of business, Chicago has for you, and each of you, her cordial salutations.

While I am an amateur in horticulture of some thirty years' standing, to ask me to speak on this subject before men so noted in its various branches would be like sending one for some useful tool and have him bring from some dark and dusty attic a rusty augur and proceed to bore you. Greater bore, we will say, than calibre. I will now introduce to you the man who brought the World's Fair to Chicago, and that man is Thomas B. Bryan.

MR. BRYAN:—*Mr. Chairman and Gentlemen*: I am delighted at having this opportunity of meeting you and am rejoiced to see so many nationalities represented here. I think that the most conspicuous advantage of the exposition is in this blending of people together from all parts of the world. We are provincial until we come in contact with our fellows from across the ocean. We have no knowledge or conception of the peculiarities and the distinctions that exist with all other people until we come into conference with them, and then our scope of vision is enlarged, our affections are intensified and we begin to realize that it is perhaps after all the blood of common ancestors that courses through our veins. Looking down this table in every direction I encounter men who are high up in the field of humanity, because after all horticulture is the God-given profession of our race. [Applause.] I love horticulture and therefore I love horticulturists. And for these gentlemen who have commenced with the grafting and gone up through all the intricacies of horticulture, how can I, who have done nothing in that field, be without bashfulness or diffidence? Why, I remember to have gone out some thirty odd years ago an ignoramus into the country, and I had a plain and prairie to cultivate, and I cultivated it with great insanity and with absolute stupidity and with entire failure [Applause.]; and I sent abroad over the ocean to that distinguished gentleman Loudon and I got his books and I quit being an ignoramus and I studied him. It opened up a delightful creation. And then I came over to our own country, and then I got Downing—bless his memory [Applause.]—and between them I learned a little something that was not buried in the dark set aside for the insane. Trees spring up. One of my friends, Sauders from Washington, came all the way from Philadelphia to see that insane young man, to watch and see what he was about. They had heard of his planting the largest trees planted in America, and they sent Mr. Sanders up to find out what there was in it, and he looked at me, not with disdain, not with contempt, but with overpowering sympathy and compassion. "Why," said Sanders, putting his arms around my narrow shoulders, "My good friend, you are young, and I am proud of your ingenuity and skill and tact and the way you are planting, but those trees won't live!' And I drew a deep long sigh and said "God bless you; come out next fall." He came out the next fall to see, and the trees did live, and he came another year, and the trees did live, and that plain is now a forest, and you are all welcome to go and see it and rest under its shade, under the shade of the hickories that yield their hickory nuts and of the oaks that yield their acorns. And, gentlemen, that is the end of horticulture as far as I am concerned. I am still an ignoramus.

Now, I am asked to talk of the congresses. I can only talk a minute or two about them. I am glad you have come to talk. It is the men that constitute a congress. It is the professional men that come to these congresses and give such admirable papers as have characterized your sessions that constitute the merit and advantage and value of them. I have no doubt myself that the contributions to the world's congresses—I mean of learning, of profound erudition, and practical experience, from all parts of the world—will constitute the most lasting benefit from the World's Columbian Exposition.

You take the Exposition, or you take Jackson Park now clothed in all its magnificence, and where is the most lovely feature about it? I may again be called heterodox; I may not be orthodox, but to my untutored eye there is nothing more lovely in all Jackson Park than that wooded island. [Applause.] It is the very perfection of landscape gardening, and it sprung out of the brain of that brainiest of landscape gardeners, Olmsted.

But let us pause a moment and be not too hasty in calling Washington the most beautiful capital in the universe. As a beautiful gem in the unions of states here it is high and lovely to behold, but compared with the home of this gentleman to my right (M. Vilmorin) let Washington be exceedingly modest. [Applause.] Great in everything is Paris. Great in her monumental grandeur, great in her abundance of art, great in the brilliance of her courts, and now, in her republican administration; great in horticulture from one end to the other. Paris leads the march of all cities. [Applause.]

Referring again to the Exposition it is sad to think that we are going to lose it. In a few short weeks the process of demolition will commence. Those magnificent structures that have challenged the admiration of the world, and justly, are to yield to the hand of the ruthless destroyer. I lament it; you lament it. I cannot go through any one of those buildings and look at those towering features, those beautiful columns and the exquisite work everywhere but it seems to me a sacrilege that they must come down. My own favorite idea in the beginning was to buy a few acres, 50 or 100 acres, put up some permanent buildings (four or five or six) on our own ground, then rent several acres around it and put on those rented grounds the temporary structures to be swept away at the end of the fair, and to let those permanent buildings remain, survive the fair, in order that in future we might perpetuate its most beautiful features. I wish it had been done. It think it would have been best. But after all mine was the judgment of an old man who has a right to step down and leave such things in the hands of the younger generation, and they had their plan agreed to.

The last time I was in Europe I went to Corfu, and I thought that the most beautiful thing in Corfu was the horticulture. I thought that the most beautiful, the most attractive, the most intensely bewitching thing was the horticulture, the landscape gardening, and I am sure that you gentlemen begin to think, if you have not already appreciated the fact, that your profession is absolutely saturated with the beautiful. I wish to heavens that my line through life had been cast in your life, to live among flowers and among fruits and among trees—God's most beautiful creations. To have that refined, loving and ennobling association it seems to me must be the most delightful thing in the world, and above all that it leads to perpetual peace, and that nothing but accord dwells within you.

THE PRESIDENT: Our distinguished friend dwelt on that little sore spot that remains in all of us, that the beautiful World's Fair buildings must come down, must go. It is like a little flower that you pick; it is matured, it dies, then the fragrance is gone. I now take great pleasure in introducing to you the toastmaster of the evening, our much esteemed friend, Gilbert L. Grant of the AMERICAN FLORIST. [Applause.]

MR. GRANT:—Gentlemen, I shall not take up your time by any extended preliminary remarks. America, as you all well know, is the prow of the vessel in horticulture as it is in other directions. But we get our inspiration and the foundation for our work from abroad. I have before me the names of the three great horticultural countries of Europe—England, France and Germany. And I am pleased to say, gentlemen, that we have with us here to-night representatives of two of them. I very much regret to say that a gentleman that we fully expected to have with us here to-night has been unexpectedly called home. I expected to hear from him regarding the horticulturists of England. I refer to Mr. George Nicholson, Curator of the Royal Botanic Gardens of Kew, and I very much regret that we cannot have him with us here to-night. We expected to very much enjoy his response to the toast which I intended to propose to the horticulturists of England. But, gentlemen, we do have with us representatives of the two other great horticultural countries of Europe from which we have drawn the foundation upon which we, in America, are building to-day. I now propose a toast to the horticulturists of France, and I will call upon a gentleman to respond to it whose name will not be unfamiliar to you, I can assure you. To France what do we not owe in a horticultural way? I call upon Mr. Henri L. de Vilmorin of Paris to respond to this toast which we propose, this hand of fraternity which we extend to-night to the horticulturists of France.

MR. VILMORIN:—*Mr. Chairman and Gentlemen:* I am very much moved by the toast which has been proposed to me. You make me feel in a very forcible way that if after the very able and exceedingly bright speeches you have just listened to I were to attempt anything in the way of rhetorical speaking I should fail signally. I think in consequence you will allow me to speak in the simplest and plainest way what I feel. What I feel is deep gratitude to the Horticultural Society of Chicago and all the guests present for the compliment they have paid me and my country in drinking to our health as they did. We representatives of Europe deserve no great credit for coming



J. T. ANTHONY, CHICAGO. PRESIDENT-ELECT OF THE SOCIETY OF AMERICAN FLORISTS.

over to the World's Columbian Exposition and to Chicago. We had great inducements to come. And those inducements were, first—you will permit me to say "first" because it interests all the city and all the country—to see that wonderful exposition that is so large in its extent and so complete in the number of things that are represented there; no similar exposition has ever heretofore been seen in this or any other country, and it is not likely to ever be seen again in any part of the world. Besides we were interested in horticulture. Another inducement in coming to this glorious place where the horticulturists of all the sections of the United States were to come together. We knew that by the immensity of space in your country and the endless variety and the conditions of the soil and climate quite new experiences would be brought to our knowledge and would be useful instruction, and we knew besides that in all sections of the country the American horticulturists have been at work with that energy, pluck and perseverance which are characteristics of the nation, and we knew that there would be many useful lessons to learn, and I have no doubt that when these congresses are over we foreigners will go home thankful for all the benefits that we have received at the hands of the Americans.

THE TOAST-MASTER:—I will now propose a toast to our fellow workers in Germany. France, Germany and England have worked hand in hand to furnish us the foundation upon which we here will undoubtedly build the greatest superstructure that can possibly be raised. I propose this toast to the horticulturists of Germany, and call upon a man than whom I think there could be none better to respond, a gentleman who occupies the position of Professor of Botany as well as a Director of the University of Berlin, who is a director of the great Agricultural Experiment Station of Germany, and who is sent here by the German government to report on our great Columbian Exposition for the benefit of that nation, Professor Doctor L. Wittmack.

PROF. WITTMACK:—*Mr. Chairman and Gentlemen:* I am very much obliged to you for the toast which my friend, Mr. Grant, has proposed to the German horticulturists, but I must be modest. I must say that not Germany or France alone in Europe constitute horticulture. It is still Holland, which are our ancestors I may say, and which are the most eminent horticulturists in the whole European continent. But, notwithstanding, I speak with great thanks for the toast which has been offered to German horticulturists. I must say that I am quite struck by the kind reception we find here in Chicago, found there in St. Louis at the convention of the Society of American Florists, and I beg to express here, what I could not do at St. Louis, my most hearty thanks for this kind reception, and I beg to offer them also to-night to the Horticultural Society of Chicago, who have so kindly received us to-night. It is a very difficult thing for a foreigner to conceive of what you have done, but I say that in the few weeks which I have remained here I have seen so much which is so striking, which is so admirable that it is of the greatest importance to speak of and to report to my countrymen. America is said to be a land of wonders with us. I must confess that when I came here and when I stood here I saw new manners. America is not the land of wonders. But it is the land of admiration. I see foreigners here everywhere. I see progress going ahead much faster here than it does in Europe, and it is just that, gentlemen, which will improve here the horticulture, and as yesterday I spoke of the gates which lead to heaven, now I will speak of the golden gates here which are open in America for us who come from abroad. The golden gates of the White City are open; they have shown us the entry to this cordial horticultural society. And to these cordial societies I should like to say, which have received us so well, let us hope that the horticulture of America may always increase in the same manner that it has done now.

THE TOAST-MASTER.—We have with us here to-night, gentlemen, a great many gentlemen who are connected with the traffic in an article of tremendous power. Possibly you may suspect dynamite, but you would be incorrect. I refer to something that has more power than any explosive material known to science. You may wonder at that. I refer to the power in the little acorn, from which springs the giant oak. I propose a toast to the American Seed Trade Association, and will call upon its president, Mr. W. Atlee Burpee of Philadelphia to respond.

MR. BURPEE:—This afternoon as I was returning from a hard day's work seeing the beautiful white city which you have prepared for your guests of all nations and every state I looked forward to this meeting to-night with a great deal of pleasure, to the social intercourse here this evening, with very much the feeling of the Englishman who for a few months had been doing all Europe. After doing all France he got to Germany with his courier. He arrived exhausted at a small German village. He was assigned a very good suite of rooms, reclined gratefully in an easy chair and said exhaustedly to his courier, "Well, what is to be seen here?" The courier replied, "Oh, there is nothing to be seen in this town." The Englishman answered, "Well, then, let us engage these rooms for a month." This expresses the feeling of restfulness with which I took the car from the World's Fair to come here to-night. But unfortunately my feeling of peace, the peace which Mr. Bryan has so beautifully expressed, was disturbed by taking up the evening paper and there seeing that to-night, after your worthy president, Mr. Bryan, Mr. Vilmorin and Dr. Wittmack, your toast-master, without any warning, without the slightest intimation, expected me to respond to a toast to the American Seed Trade Association. All I can do is to briefly allude to this American Seed Trade Association. Mr. J. C. Vaughan, of your society and of this city, has by his indomitable work during the past twelve months, by his constant oversight over the committee's business,

gathered together men to read papers on different subjects of interest, and has given to us members of the American Seed Trade Association from all the sections of this country and Canada, the most interesting and most instructive meeting that we have ever had. It occurred to me in the intervals between drinking and eating to ask Dr. Wittmack and Mr. Vilmorin whether there were in all Europe a similar association. I knew that there was none in England. Mr. Vilmorin assures me that there is none similar in France, and Mr. Wittmack says the same of Germany. Therefore the American Seed Trade Association, which was formed a little over ten years ago, is unique of its kind. It gathers together in one association and admits as eligible to membership every grower and dealer of seeds in America in the general line. During all the period of its existence I have never known it to refuse admission to any honorable candidate. Its doors are wide open. It welcomes the smaller as well as the larger dealer, and I will say, and I know that the members of this association who are here will agree with me, that the papers read and the subjects discussed are discussed with a freedom and with a candor which is at all times noticeable. I see on my left a gentleman from Denmark who a few days ago I had the pleasure of having to dine with me. The same day there were present three American seedsmen, all members of this association, but unfortunately not present at our meeting. After they had left and we had spent the day walking around town he said to me, "Why, Mr. Burpee, I am astonished that you all meet together in such perfect good fellowship and seem to be such warm personal friends. From way off in Denmark I have been reading your catalogues and I supposed that you were cutting each other's throats." [Laughter.] Now it is this very spirit of fellowship that this American Seed Trade Association has advanced. It is above all petty meanness. It is a great thing to recognize that any success must be born of knowledge, that our interests are not antagonistic, but are common. When we travel through Germany, through France or England, we come home impressed with the idea that horticulture in America is yet in its infancy only. We have traveled through many towns in America and we see villages that have scarcely a single flower garden. They have no choice vegetables, but more generally depend on the trucker, and that trucker even sometimes comes from the city to serve them. There is an effort to change this and we are working hand in hand to that end. I know that each individual is working for his own best good by working for the best good of horticulture. [Applause.] On behalf of the American Seed Trade Association, Mr. President, I can only extend my most hearty thanks and my appreciation for the courtesy which the Horticultural Society of Chicago has shown in this most enjoyable meeting.

THE TOAST-MASTER:—Some weeks ago at one of our Florist Club meetings we enjoyed a unique treat in the vocal line, and I propose if possible to favor this company with what we enjoyed at that time. Before I announce the singer I want to say that there is a country to which we owe a great deal for plants, rare plants, useful plants. I refer to Japan. I am glad to say that we have with us here to-night a representative of that country. We are a very cosmopolitan company, gentlemen. I will ask Mr. Henry Izawa to favor us with a Japanese love song, such as he gave us at our last Florist Club supper. [Mr. Izawa responded with a song in Japanese which was received with prolonged applause.]

THE TOAST-MASTER:—Gentlemen, we commenced with the seed and will pass on to the work of the nurseryman. The nurseryman has been a missionary that has done a very great deal for horticulture all over the world. The value of that work can hardly be estimated. We have with us to-night a son of one of the oldest nurserymen in the country. I believe one of my very first recollections of names in horticulture was that of John A. Warder, and I am pleased to say, gentlemen, that we have with us here to-night his son, who is fully able to represent the father who went before him. I call upon Mr. R. H. Warder to respond on behalf of the nurserymen.

MR. WARDER:—*Mr. Chairman and Gentlemen:* On this occasion I am more than happy to be called upon and glad to meet these people of the different nations of the world. Among them are many of my father's old friends and they have taken me by the hand and introduced themselves. When I meet men like Mr. Smith, Bryan and Sanders and see others here whose names I have known, including our distinguished foreign guests, I am proud to be here on this occasion. Though why I should speak on this occasion without perhaps a copy of Loudon I hardly know. My earliest recollection is of raising trees and loving them. I have been a humble planter of trees rather than a grower, but I honor that trade which has done so much to facilitate the interchange of rare trees, flowers, plants, etc., from Japan, South America, Europe, Asia, Belgium, France and Germany, and in some of our small villages, in spite of what Mr. Burpee said, we find rare specimens and as devoted lovers of plants as can be found anywhere. I believe the love of plants is innate in the human heart. I am proud to be called upon, and proud to be the guest of the Horticultural Society. As we sometimes see the grandest effects accomplished on the ruins of a dead tree, the bush which preceded it, just so with these younger societies. We are proud of their impulse from our old society, which leads me to think may there not be a union in the future some time of all these associations. Why should they not have a common union, working together. In union there is strength. I offer this as a suggestion given to me by a friend, whose absence I regret extremely to-night, Mr. Garfield, of Michigan. Gentlemen, I now propose a toast, and I know that all the strangers present will join me, to the Horticultural Society of Chicago. I propose it standing. [All the visitors rose and responded heartily to the toast.]

THE TOAST-MASTER:—Gentlemen, we commenced with the seed and progressed to the plant. We will now proceed to the flower, not necessarily the crown of all; we will come to it a little later, but in a measure the crown to a very great many of us here to-night. A most important division, and one which I believe is growing in popular favor more rapidly than any other division is floriculture. I call upon Mr. Robert Craig, of the City of Brotherly Love, to respond to a toast to this beautiful division of horticulture.

MR. CRAIG:—*Mr. President and Gentlemen:* I feel somewhat as Mr. Burpee has expressed himself—the feeling of being hardly able on such short notice to adequately respond to the toast so kindly offered to floriculture, but I feel encouraged to say a few words because I am sure of one thing—I am sure of sympathetic listeners. [Applause.] There is so much in common in a general way between the work and the development of the work in the lines of pomology, in the line of the improvement of vegetables, and of the line of the improvement of flowers that I feel we can sympathize with one another and can glory with one another as each branch advances. [Applause.] As you know the advance in the different lines of pomology is not rapid. Of the many seedling fruits that make their appearance from time to time it is only occasionally that one is found with points of excellence beyond others in its class. The advance is necessarily slow, but occasionally in pomology we are delighted with the appearance of the new fruit, which in point of size, color or flavor is recognized as an advance and acquisition. This is true also in the lines of vegetables. There are those here to-night who have watched the development of the vegetable from the comparatively insipid thing to the luscious and delightful thing that we enjoy to-day. The same is true in the line of flowers. Of the many novelties introduced each year we get but few that remain with us as a permanent advance. But in the midst of all the disappointments we do advance and we are advancing. And I may say that the florists' associations and the florists' clubs have by their organized efforts contributed greatly to the general advance. I might say that in the line of roses, the queen of flowers, we yearly make a slight advance. We get a better rose and a larger rose almost every year. One that stays with us and whose fragrance we inhale with continued delight. In the line of carnations I suppose the advance has been more remarkable than in any other line. This is largely due to the enthusiasm which has come out of the organization of the subdivision of the Society of American Florists known as the American Carnation Society. These gentlemen who make a specialty of cultivating that flower have been greatly stimulated by the exhibitions proposed and carried out by this young society. I was never more delighted in my life than with the exhibition of carnations at Pittsburg last year. I think every one who saw that exhibitions is willing to admit that there had been a grand advance in the development of the divine flower. Carnations were shown I think at that meeting finer than ever before in the history of the world. They had it is true been prepared especially for that meeting. They had received special care looking forward to that exhibition. But I want to say that they never would have reached the extremely high development that those flowers showed if it had not been for the fact that this society was organized and that the members worked together with enthusiasm and harmony. [Applause.]

Gentlemen, I can not sit down without expressing my personal gratification at meeting with you here to-night. I have been at many gatherings of florists and have found them all congenial, but I find an added charm in this meeting here to-night in the presence of so many men who have distinguished themselves in other lines of horticulture. I am delighted especially to meet these gentlemen from abroad. I personally have had that pleasure seldom before, but I have in this visit to Chicago met gentlemen from France, from Germany and from Japan, and from other countries, and find them all congenial workers in the great cause that we all have so much at heart. I suppose in a meeting like this it is not



CONSERVATORIES AT HUMBOLDT PARK, CHICAGO.

necessary to say much specially about the uses and the advantages of flowers. That is conceded I am sure by every one present. They are welcome on every occasion, at the birth, at the marriage, and when the last sad rites are performed flowers are always appropriate and always welcome. So that I feel in a meeting like this that I need not say much in a general way on that aspect of the question.

In viewing in a general way the effect that flowers have on modern civilization I must confess that I am a little surprised at a certain great school of gardening known as the natural school of gardening who either ignore altogether or fail to adequately appreciate the advantage of color in the production of the landscape which it is their duty to create. I might say that I am entirely in harmony with that school of thought in much that they entail. I can join with them in the admiration of the different forms of shrubs and trees. I can admire the individual specimens of a graceful tree, and I am arrested by the verdure and the green. I enjoy the gently sloping bank of velvet green as it slides down to the water as much as anybody, but I want to ask those gentlemen here why it is that flowers are not more used and more advocated in their school? Is there anything more natural than the rhododendrons on the mountains in their blazes of color in the early June? Is there anything more natural than the feeling when you come close to flowers? I want to ask those gentlemen why it is that they do not appreciate more than they do the use of flowers in their beautiful landscape effects.

THE TOAST-MASTER:—After the flower comes the fruit, and I am pleased to say that we have with us to-night the president of the American Pomological Society, a society that has done a vast amount of good for horticulture in this country. I will call upon Mr. P. J. Berckmans, of Augusta, Ga.

MR. BERCKMANS:—*Mr. President and Gentlemen:* It is useless for me to say many words in regard to American pomology and its wonderful development. We have it on record that even that little ship that we find now anchored in the lagoon brought back to Europe, long before Christopher Columbus made his discovery, the evidence that there was a country here worthy of being called Vineland. That was the first notice that the world had that you had a pomological problem. I recollect when I came to this great country and made the acquaintance of your illustrous pomologists, and I can remember well the words of welcome and friendship I received. I was surprised at the very small amount of fruit produced then in your country. In New York the only grape known then was the Isabella. The other day passing up the Hudson river I was pointed out the place where this grand production of pomology had its origin, you might say development. What have we to-day in comparison with this Isabella, which was the only representative of that great product forty years ago. In the way of pears the products are very limited. The organization of the American Pomological Society had for its object the development of pomological education, and all honor is due to the man who originated that society, and I am proud to say that among the original promoters of that society was my friend, Mr. Campbell, who is here to-night, and to whom you owe that excellent product and standard of excellence the Delaware grape. Strawberries forty years ago in the New York markets and others, as you may well recollect, some of you who are a little older than I am, were sold in little basket at about six pence apiece, and I suppose the whole product then disposed of in the New York market in a week would not compare with what you now dispose of in the Chicago market in an hour. And it is the same with other products. You in Chicago to-day, gentlemen, have products on your markets that a few years ago were not thought of. Much to my astonishment I found that the California products are sold in Chicago at the same price that they are in the New York market or the Philadelphia market or any other market. That is by concentrated action. I came here to meet many old friends. I shall go home having made many firm and long lasting friendships. Such a reunion as we have had to-day is to be one of the most pleasant occasions in my life, and I thank you for this opportunity of having met so many of you and I hope that our friendship, which has been cemented, will be everlasting.

Upon request of the toast-master, Mr.

Robert Craig sang "Annie Laurie" in his usual happy way, the entire company joining in the chorus.

Mr. Robert Kift then gave an illustration of the production of a new plant. Mr. Kift is a prestidigitator of ability and with a pot of soil and a paper cone soon brought forth a plant of hardy phlox that rivalled the best catalogue pictures in dwarfness and generosity in bloom. This feat was greeted with prolonged applause.

Mr. Hugh M. Hughes favored the company with the song "Rocked in the cradle of the deep," and after a general handshaking the company dispersed.

The Present of Floriculture.

BY ROBERT CRAIG, PHILADELPHIA.

[*Read before the Florists' session of the Horticultural Congress at Chicago, August 17.*]

I assume, that under the term "Floriculture," may be considered ornamental horticulture in all its branches, including the adornment of parks, public gardens and home grounds, as well as interior decorations with flowering and foliage plants, and the use of cut flowers in the various ways that custom and individual taste may suggest, as well as methods of culture. It would be obviously improper in the short time allotted to attempt to go into details of the various branches; I can only take a hasty glance at the important features, and what appears to be the prevailing tendencies of the times. My limited personal knowledge is confined to this country, but in the discussion which may follow we can look for wider information from the distinguished foreigners present; of one thing we can rest assured, as long as the love of the beautiful inheres in man floriculture shall not lack ardent supporters.

We are all interested in the floral adornment of parks and public grounds, they are the great educators of the people; but still more important is it that our home surroundings be made attractive. The greatest of all human institutions, the world over, is the home; around it cluster all the fondest memories and associations. The tasteful use of flowers and shrubs will enhance its beauty, and their care and culture afford restful and healthful enjoyment. In the great rush of American life the garden offers rest. As our yet new country is gradually developing there is a constantly growing appreciation of its great value as a retreat for over-worked men and women from the cares of our too active life. Much has lately been written, and well written, in the leading horticultural journals, of the adornment of the spacious grounds surrounding the homes of the wealthy, but not enough in the way of suggestions as to the tasteful planting and correct culture of the smaller gardens of those not so endowed with worldly possessions; there is not room in these little spots for extensive landscape effects; they must be adorned in a more or less formal way, but such arrangement need not violate any principle of true art.

While considering this matter of outdoor gardening, I would call attention to the fact that there are several schools of gardening, one of them is known as the "natural" school, its aim being to take nature for a teacher and to produce effects somewhat in the similitude of nature's own handiwork, and to conserve such elements of beauty as may exist before the energies and art of man are brought to bear. But it must be remembered that nature is not always beautiful; she produces the poisonous and thorny weed and the noxious and tangled swamps as well as vegetation pleasing to the senses.

The work of the landscape gardener is often to keep her in subjection, and not to blindly follow her. No garden can be altogether natural, and none altogether artificial. The so-called natural school is now largely represented in the horticultural literature of the times. It is to be deplored in these writings that there is a failure to recognize the importance of a judicious use of color in enhancing landscape effects, which may be done by the proper use of such shrubs and trees as the purple beech, golden sambucus, Cornus Spaethii, Acer Negundo variegata and the like, and by the use of masses of brilliant color, as is produced, for instance, by clumps of Asclepias tuberosa and similar flowering plants; and where brilliant effects are desired I can see no reasonable objection to the use of geraniums, cannas, etc. I know it is objected by some of the radicals of the naturalistic school that these plants by their continued bloom may be monotonous, but does not a landscape always green become monotonous? I know that the love of color is almost universal, and it is right that this feeling should be ministered unto. I do not object to green as the prevailing color, but is there not danger of a feeling of monotony when all bloom and bright foliage is conspicuously absent?

Besides the natural style of landscape gardening there is another known as the architectural or formal; the latter recognizes that there exists in the minds of many a love of symmetry and regularity and the outcome is the production of formal beds in various attractive patterns, which, when the work is skillfully done, are much admired. The proper position for such beds is where they will be in harmony with the architecture of the neighborhood, or where they may form part of a design including other beds, the whole being laid out on consistent geometrical lines. The weakness of the so-called "natural" school is that it almost or altogether ignores the importance of this branch of gardening. Fortunately there is another school of gardening known as the composite, which is willing to recognize merit in both of the other schools, and whose present problem is to decide on the proper location and relations of illustrations of both methods, cheerfully recognizing that each is right in its own place. No less an authority than the distinguished French landscape gardener, Andre, has recently said: "To the composite style, which results from a mingling of the other two, under favorable conditions, belongs the future of gardening art."

It is very gratifying that in this present time, more than ever before, there is a disposition on the part of our leading architects to recognize the importance of landscape gardening; it is now considered necessary to call in the landscape gardener for consultation when a new place is to be created. And wonderful advances have already been made by this disposition of the architect and landscape gardener to work together in harmony. What sad failures have resulted when the architect, no matter how eminent in his own profession, has alone designed the houses intended for plant culture. It can not be expected that he can understand the requirements of plant life, hence the necessity of consulting one who has made these things a life study. Some of the most gratifying exhibits at the World's Fair are the greenhouses and conservatories, which is the result of conferences between the best cultivators of plants and the greatest architects, the outcome being that the structures are beautiful from an architectural standpoint, and eminently adapted to the purpose required.

Another hopeful sign of the times is the interest taken in improved varieties of outdoor bedding plants, such as roses, geraniums, carnations, verbenas, etc. This is notable in the case of the dwarf large flowering cannas of the Crozy type. These latter are destined to play a great part in the future of American gardening; they not only produce a continuation of brilliant bloom, but are also graceful in foliage and growth. Although to M. Crozy, of France, belongs the credit of discovering their susceptibility to improvement, and of introducing many superb sorts, it has recently been found that the American climate is admirably adapted to the production of seed and development of seedlings, and a few excellent ones have already appeared.

This canna is a grand plant and its improvement is yet in its infancy. Like the chrysanthemum it is destined to grow in popularity. There is also remarkable interest taken at the present time in the introduction and cultivation of hardy perennial plants; they are deservedly popular, having the advantage of permanency, and if a proper selection be made keep up a continued bloom from early spring until frost comes in the fall. While outdoor gardening is receiving due attention there was never a time when plants under glass and flowers for cutting were grown in such perfection, the improved greenhouses of to-day contributing greatly to the result. The growing interest in aquatic plants is especially noticeable; their cultivation is yearly better understood, and many kinds are now successfully grown in the open air which a few years ago were not considered.

The amateur horticultural press and the trade journals are active and efficient in advancing horticulture, and daily papers and magazines cheerfully publish all matters of interest which they can procure, which are eagerly read by many. The modern trade catalogue must not be forgotten among the agencies which advance horticulture. They are educational in a high degree, and their illustrations are faithful to nature more than at any previous time.

It is to be hoped that botanical gardens will soon be established in several large cities; the plans and money for the proposed one in New York are nearly ready; this is to be somewhat on the plan of the famous Kew Garden at London, England. Who can fully appreciate the work that has been carried on at this institution in the past fifty years? Hundreds of young men have gone from there to all parts of the world well equipped in knowledge and full of enthusiasm begotten of contact with minds developed by the methods and association of that institution. On the whole the outlook is very encouraging; it is only necessary for each of us, while being diligent in our own business, to make some personal sacrifice for the public good, and to help by our sympathy and work all societies, clubs and managers of public exhibitions in every reasonable way.

Dwarfing Plants In Japan.

In his paper read before the Horticultural Congress at Chicago Mr. H. Izawa described the methods employed by Japanese gardeners to produce the dwarfed plants of which specimens are shown in



FANCY BEDDING IN GARFIELD PARK, CHICAGO.

the miniature Japanese garden at the World's Fair. He said:

"The pines may be considered the most important of all trees in Japan, and great care is taken in their cultivation and preservation. The most popular ones are Pinus densiflora, Pinus parviflora and Pinus Thunbergii. They are generally grown from seed, and great care is taken to select the choicest quality of seed. In the spring of the second year, when the seedlings are about eight inches in height, they are staked with bamboo canes and tied with rice straw, the plants being bent in different desirable shapes. In the next fall they are transplanted to a richer soil and well fertilized. In the following spring the plants are restaked and twisted and tied in fanciful forms. This mode of treatment is given until the seventh year, when the trees will have assumed fairly large proportions, the branches being trained in graceful forms, and the foliage, like small clouds of dense green. The plants are now taken up and potted in pots eighteen inches in diameter and are kept well watered. Every succeeding year great care is taken of new shoots, which must be kept pinched back. After another three years of this treatment the trees are virtually dwarfed, there being no visible growth thereafter.

"The dwarfing of the bamboo is another important branch of the Japanese nursery business. Three weeks after bamboo shoots begin to grow, and when the trunks measure about eight inches in circumference and five feet in height, the bark is removed piece by piece from the joint. After five weeks, when the plant gets somewhat stout, we bend and tie the stem zigzag. After three months, when the side shoots grow strong enough, we cut them all off five or six inches from the main trunk; they are then dug up and potted in sand. Care is taken not to use any fertilizer, but plenty of water is given. The large shoots are cut off every year, in May or June, and after three years the twigs and leaves present admirable yellow and green tints.

"Thuyas are dwarfed by means of grafting. A Thuya Lobbi seedling is grown in fertile soil for three years, or until it becomes about five feet in height, then, in the middle of spring, all branches are cut off, leaving the trunk and top branch. Then with a ¼-inch chisel holes an inch deep are hollowed out every two or three inches in the thickest portion of the trunk, so that the trunk can be bent more easily in the desired direction. Rice straw is twisted around the trunk, which is bent in many curious forms and fanciful shapes. In springtime of the second year of this treatment the plants are potted in rich soil. In another two years, when the plants have assumed permanent forms, Thuya obtusa is grafted on the Lobbi stem.

"The process of grafting is in brief as follows: Apply plenty of fertilizer to the Thuya Lobbi plant; in early spring take some 2-inch shoots of Thuya obtusa, cut the end in a slanting plane and insert on the smaller portions of the Thuya Lobbi trunk, one graft to every inch on the trunk; wrap the grafts with rice straw and take the plants to a shady windless room with a temperature of 35° F.; increase the temperature 1° or 2° daily, and continue this for three weeks. By this time a little breeze may be admitted, and leave the temperature of the room at 60° for two weeks and at 70° for two weeks; leaves will soon grow from the grafted twigs. In the latter part of spring, when the temperature in and out of doors becomes uniform, the plants can be safely transferred to some shady position out of doors. In the fall, when all the grafts have taken good hold, cut off all the remaining shoots of Thuya Lobbi; transplant every year in good rich soil. Six years will be sufficient to produce handsome specimens of dwarfed thuyas. All kinds of conifers are treated in a similar manner. There is, also, a great demand for curiosities in mixed grafted conifers, that is, six or seven kinds of conifers on one plant.

"Maples form one of the best materials for the artistic fancies of the Japanese graftsman. Many times a great many different varieties of maples are grafted on one stem. Seedling maples are spliced and tied together when growing. After they have formed a union the desired shoot is cut off; this is kept up until ten or twenty varieties are obtained. Maples thus grafted form lovely features for lawns, their varying hues and types of foliage enhancing each other's beauty.

"Now, a few words regarding our miniature gardening. The æsthetic idea shows itself in every line of Japanese industries, and especially is it the case with our nurserymen and landscape gardeners. The most inexperienced need not fear any difficulty in our mode of gardening if he but uses his mind and efforts in the right direction. The skillful artist introduces into his miniature garden, not regular geometrical forms, but anything odd, irregular and artistic. To us gardening is not mathematic, but an art; hills, dales

rivulets, waterfalls, bridges, etc., vie with each other in presenting their quaintest forms and fancies and harmonious symmetry. Dwarfed plants of all descriptions deck the scene here and therein thousands of peculiarly artistic shapes. We derive many lessons from nature, and strive to imitate her as much as is practicable, although on a smaller scale. It is in the person of a Japanese gardener that Dame Nature finds her most ardent lover; his is the ambition to make his country a place for men like Arnold to flee to when seeking a studio to the beauties of the 'Light of the World'."



Seasonable Hints.

The first report of the American Carnation Society gives a list of 420 varieties of carnations, which includes nearly all to date, but a few of the number are synonyms. The great majority, however, are new to the trade, and consequently untried. Over one-fourth have been introduced during or since 1890, and have not yet become widely disseminated. These latter comprise many well worth a fair trial, of which we will mention the following that would seem to deserve extended propagation and use: Christmas, Constancy, Crimson Coronet, Daybreak, Edelweiss, Edna Craig, Fred Creighton, Fred Dorner, Grace Battles, Grace Darling, J. R. Freeman, Lizzie McGowan, Mrs. Fisher, Puritan, Thos. Cartledge, Wm. F. Dreer and Mme. Diaz Albertini. To this list may be added the following older varieties: Alegatiere, Anna Webb, Buttercup, Century, Chester Pride, Crimson King, Dawn, Duke of Orange, Edwardsii or Peerless, E. G. Hill, Ferdinand Mangold, Golden Gate, Golden Triumph, Grace Fardon, Grace Wilder, Hector, Hinsdale, Hinze's White, Jeannette, J. J. Harrison, La Purite, L. L. Lamborn, Snowdon, Portia, Garfield or Robt. Craig, Orient, Philadelphia Red, Silver Spray, Sunrise, Tidal Wave, Var. La Purite, Waneta and Wm. Swayne.

This list of fifty we think will include all those generally grown, and from which nine-tenths of the flowers are produced. A few others may have a local fame of which we are not aware. A few mentioned above are old varieties once largely grown, now generally discarded, viz.: Crimson King, Duke of Orange, Edwardsii, Grace Fardon, La Purite, Snowdon, Orient and Philadelphia Red. Many of the most recent introductions are very promising, and will no doubt take their places as standards. The above list we hope will simplify matters for the novice somewhat. But one must recollect he must choose such kinds as are suitable to his particular soil and surroundings. No carnation above mentioned can be grown universally. Daybreak, Grace Wilder, Portia, Tidal Wave and Silver Spray come nearer filling the bill in that particular than any we can mention, but even these will fail in some localities. The only directions we can give is to try the most likely sorts and hold on to those that do well. Do not invest too largely in novelties, but give the newer kinds a trial in a small way, when, if found to be suitable, they can be grown in quantity. In growing carnations for flowers but few kinds are needed, representing the different colors. The selection of the proper kinds is a matter almost entirely of experience. W. R. SHELMIRE.

Avondale, Pa.

Miscellaneous Seasonable Hints.

Get your pots and soil ready to lift from the bench the chrysanthemums which you want for pot plants. The first week in September is the time. Then you have time to clear out the soil, overhaul the benches, and get in soil for carnations, which you will plant from the 15th to the 30th of September. Let the chrysanthemums be a little longer than usual without a watering and then water a few hours only before lifting. Get your fork well under and they will lift without losing a fibre and grow right along without a leaf turning yellow. Keep them well watered and syringed overhead three or four times a day for the first week, after which time they will be sufficiently well rooted in the pots to have plenty of light and air. But don't put them out of doors at any time. They will nearly double in size after being lifted and potted, and will well fill the pots with roots, so a little bone meal mixed with the potting soil is necessary to carry them through the flowering time if the best results are looked for. Just as soon as convenient put one strong stake in the center of these plants and support each branch with fine smilax twine to the centre; that's enough to hold them together and they won't have that wretched staked appearance that you see on some so called specimen plants; neither will they look like a cos lettuce tied up to bleach, which is liable to be the case when one string surrounds the whole bush.

About September 1st sow another lot of cineraria, primula and calceolaria. As all these thrive in a cool temperature it is much easier to grow the second lot (which should be managed to come in at Easter) than it is to summer the May and June sown crop. If the come up is good don't be afraid to throw away 75 per cent. of them. The call is limited for such plants and they want lots of room (cineraria and calceolaria especially) to grow them well. It is no earthly use to grow them at all unless you can give them sufficient room to amply develop their leaves, so grow only what you can afford to treat properly.

Begonia semperflorens gigantea, a fine house plant for midwinter, should have its top pinched out now and shifted into its flowering pot, a 5 to 6-inch; besides being a fine pot plant, the large scarlet flowers of this beautiful begonia are very useful at times.

It is not yet too late to sow hollyhocks for next summer's flowers. There is an increasing demand for these every year and I have found good strong young plants very difficult to procure. Sow the best strain you can buy, and when large enough pot into 2-inch pots and grow them along outdoors till November 1st, then shift into 3-inch, or better into 4-inch pots if you can afford the room. The best I ever grew were wintered in a very cool house, but a well protected cold frame will do for them. Plant out in spring as soon as soil is dug and dry enough and you will be well rewarded for the little trouble over them. There is nothing like experience, so I beg to give mine, and that is that the best hollyhocks I ever grew, which were eight feet high, well branched, with hundreds of flowers on every plant, were planted in a stiff brick clay with plenty of good manure added to it.

Delphinium formosum, Coreopsis lanceolata, and other useful perennials, can now be sown, and may be wintered in a cold frame. They will be very useful to all those who have land enough for them.

It is a good time now to root a few hundred of the double sweet alyssum for winter bloom. Take of course only the young tender shoots. Some find this little flower so useful for design work that I see it grown on benches, but if you don't want that amount, a few dozen plants along the edge of your carnation bed is indispensable to the retail florist and is clear profit.

Don't neglect to train up your young shoots of smilax and asparagus every few days, and when they are a little longer they won't depart from the string.

Buffalo, August 21. WM. SCOTT.

Philadelphia.

Trade light ! ! !

The trade is no lighter this August than any other August, so far as I have been able to find out. The depression in trade generally, which has swept o'er the length and breadth of the country with unmistakable effect has not had anything to do with the florists' business during July and August excepting as regards collections, and our business has suffered in that respect equally with most others. Florists as a rule are neither pessimists nor are they optimists, but generally speaking they all have an eye on the main chance, and many of them "get there" at least with one foot and some of them with both feet. It is idle to attempt to predict what will be the probable outcome during the coming season. All that can be done at present is to hope for the best, and prepare for the worst.

Mr. H. H. Battles has returned from his four weeks vacation in the New Hampshire hills very much improved in appearance and health. He looks as though he would be well able to take good care of the business which he feels entitled to, and expects to secure during the season to come. Mr. Battles is not a pessimist.

Mr. Thomas Cartledge—the old reliable—with his daughter is about to start—if he has not already gone—to the World's Fair. Thomas is fully entitled to his vacation, and every body wishes him a good time and a safe return.

Mr. George Craig has returned from the World's Fair and St. Louis. In George's undemonstrative way he speaks very highly of what he saw at the white city. He takes the defeat of the Philadelphia bowling team very philosophically.

At the regular stated meeting of the Pennsylvania Horticultural Society, which was held last Tuesday in St. George Hall, southwest corner of Arch and Thirteenth streets, in the absence of the president and vice-presidents, Edwin Lonsdale was, on motion of D. Bearn, called upon to occupy the chair.

Secretary Farson reported, on behalf of the committee on arrangements, that he had visited and examined all the available and promising halls in the city with a view to the selection of one in which to hold the next fall exhibition and chrysanthemum show, and in his judgment considered that the Armory Drill Hall and parlors (I forget the name of the regiment to which it belongs) on Broad street, not so far north of the Public Buildings as the ruined Horticultural Hall is south of that pile. So that it is in a very desirable neighborhood, quite convenient to either Broad Street Station



A TASTEFULLY ARRANGED SMALL GROUP OF DECORATIVE PLANTS.

(Pennsylvania R. R.) or Market Street Station (Philadelphia & Reading R. R.) The patrons and members cannot complain of the location; nor can they find any fault with the hall. Excepting that there is no lower hall, and the foyer is lacking, the dimensions of the main hall are very little short of being what old Horticultural Hall is, or rather was.

What bothers the committee of arrangements now is the time for keeping the show open. For some few years back it has been thought advisable to keep open the show for two weeks instead of one, and last fall the committee on revision of schedule made the necessary provisions in the list of prizes and offering of premiums to allow for two weeks' continuance, but now it is somewhat doubtful since the old hall has been burned down whether this arrangement can be carried out, as it would put the regiment to much more inconvenience to allow their hall to be in the hands of the horticulturists for more than one week. One of the troubles seems to be that under the enlarged schedule all the competing exhibits could not find adequate space in the hall selected if the time of the exhibition is to be reduced to one week.

It is deemed advisable and necessary to call the committee on the revision of the schedule together for the purpose of cutting the offers of premiums down so as to make the exhibits in accordance with the space at command and the time to one week. Some of the committee are anxious lest exhibitors may object to the change, but no reasonable man can object, because it is not the fault of the society that it is necessary to make some changes in the schedule and the length of time to hold the show open.

The adjustment of the damages to Horticultural Hall still hangs fire. It seems from what can be learned that the two appraisers—one selected by the insurance company and the other by the trustees of Horticultural Hall—could not, or would not, agree upon a third appraiser. Superintendent Farson, it is stated, has now assumed control, and we may now reasonably hope that a speedy termination of the matter will be effected which will, we trust, be fair and equitable to all the parties concerned.

Fire insurance agents have a choice stock of expressions which they make the most effective use of when soliciting trade, but, judging from the experience of the trustees of Horticultural Hall and some others who have met with misfortune by fire, it would almost seem as if it would be the most satisfactory to insure ourselves.

The report of the special committee on library at the aforesaid meeting of the Pennsylvania Horticultural Society stated that over $1,100 had been collected, over $600 had been spent and that over $400 was still in hand.

At the first blush after it is mentioned that Atlantic City, N. J., had been selected as the next place of meeting for the convention of the S. A. F., it does not seem to be quite the place, but the more apparent it becomes that very few places in the country offer the same inducements. Some good judgment is necessary in the selection of the time of sessions so as to give the members a free foot during the regulation bathing hours. Florists, as a rule, are early risers, so that there is no reason at all why sessions should not commence as early as eight or not later than nine o'clock in the morning. This would be one way to take time by the forelock and it would leave little or no excuse for the members to go away before the first business of the day was transacted. Atlantic City is inclined to be gay in the evening, so that perhaps it will be best to do away with the evening session and have a session in the afternoon. All these matters will bear very careful consideration at the hands of the executive committee at its next annual meeting, which, according to usage, is held in the winter season in the city which has been selected for the next convention. The opera house at Atlantic City, which everybody who was interested in the movement to bring the next convention to the city by the sea, had his eye upon in which to hold all the business sessions, unfortunately was burned to the ground a day or two ago. Whether it will be rebuilt in time for next August is doubtful, as it is stated that the building had not been a very profitable investment to the owners. However, other places may be found in good time, it is to be hoped, which may answer the purpose quite as well. At the next meeting of the Florists' Club of Philadelphia I suppose committees will be appointed to look after the different interests of the next convention.

It has been stated since Atlantic City has been selected that the florists of New Jersey had contemplated inviting the S. A. F. to that point to hold its regular convention. If that be so it is unfortunate that Philadelphia should have stolen this march upon their brethren in New Jersey. One thing is certain, the Philadelphia boys were not aware that such a project was in contemplation, or I am sure the action taken would not have been attempted.

The La Roche & Stahl failure is still fruitful of much comment. Many of the florists have not yet signed the agreement, though most of them seem inclined to do so. Some have not yet returned from the World's Fair. Nothing definite can be known until they have all returned, notwithstanding that it has been asserted in some quarters that everything had been arranged for the firm to continue in business at the old stands. It is a bad failure. There is no doubt that it was the real estate transactions which swamped them, and it will take a healthy boom in real estate in the neighborhood of Collingdale to lift them out of their present difficulties, and it is to be hoped that success will crown their laudable efforts to pay every dollar they owe with interest.

Only one of the team of bowlers from this city, who took part in the tournament at St. Louis, has so far been seen. Whether they have deferred their return until the matter has blown over or not I have no means of knowing. Certain it is that none of them have been seen in their

old haunts up to this time. The least said about the matter the better.

It was a sad termination to the trip of Mr. and Mrs. Burton, who had gone to St. Louis and who expected to spend some time at the World's Fair. The cause of their suddenly being called home wa a serious accident which happened to Mrs. Burton's mother, Mrs. Lees. A turn or the better has now set in and it is to be hoped that she will soon be well and strong again.

The weather hereabouts is unusually dry, no rain of any consequence has fallen for several weeks. Everything outdoors is suffering in consequence, and carnations and many other things useful to florists will be much smaller than usual at lifting time, next fall. This at least can not be blamed upon the new administration. L.

Boston.

The excursionists to St. Louis and Chicago have been returning one by one or in small groups, and all with the same story to tell, of a thoroughly enjoyable time. All claim to have had the best trip on record, and they chuckle audibly as they hear the story of scorching days which the stay-at-homes had to endure in the meantime.

Local trade continues dull. Gladioluses, asters and garden flowers in general are very abundant. The wholesale dealers have begun to feel quite a pressure from the seaside, Bar Harbor especially having made some pretty heavy demands on their resources during the past week.

The free Saturday exhibitions at Horticultural Hall are now at their height, and from 12 till 3 o'clock the hall is crowded. Gladioluses, dahlias, asters, tuberous begonias and hardy perennials in great variety constitute the great part of the shows at present.

Much pleasure and satisfaction is expressed here over the news that Hon. C. W. Hoitt, of Nashua, N. H., has been nominated as World's Fair commissioner in place of Geo. F. Page, of Concord, resigned. Judge Hoitt is one of the boys and is very popular wherever known.

The announcement that Elijah A. Wood, of West Newton, had been elected president of the American Chrysanthemum Society was also received with much favor. "Little Woodie" is another one of the boys.

Mr. Alexander Montgomery arrived home but three hours before the time set for his mother's funeral. A more sudden and terrible affliction could scarcely befall any one, and much sympathy is expressed on all sides.

Buffalo.

There is no break in our long continued drought, the longest and most severe the writer can remember in this or any other country. The dust has been laid twice in about twelve weeks. The grass is dried up and the "poor" grasshoppers have to come to town to get something green to nibble at, and the popular question just now, when you meet a friend, regardless of his or her profession, is "How are the grasshoppers with you." They have done much harm in the greenhouses and some of the florists have been so troubled with their visits they have found it necessary to cover ventilating space with muslin. This protracted dry spell has made all kinds of flowers scarce especially where the hose could not reach them.

Business is very erratic; one day it is with you and the next it is not and more often it is the latter. I have never seen white carnations so scarce, and sweet peas will soon be gone. The advent of good roses will soon come and welcome they will be. The strong smelling Lilium auratum is with us in abundance and they are all used up.

Mr. J. F. Cowell is busy looking up exhibitors and exhibits for the big interstate fair at Elmira next week, of the horticultural department of which he has charge.

Buffalo's representation at St. Louis was awfully small but very select, what there was of it. All the boys seem to have some good excuse for non-attendance. The FLORIST has been looked for all the more eagerly to see all the happenings. And they all seem to have had a good time as well as an instructive one. All we absentees can console ourselves with is that Atlantic City is to come.

I regret to have to announce the death of Mrs. George Troup, wife of the superintendent of our beautiful Forest Lawn Cemetery. The occurance is lamentable. Mrs. Troup will be sincerely mourned, not only by a large family, but by a very wide circle of friends.

Our boys will play the Rochester ball tossers the return game of ball in the above city August 22. The Rochester team were not satisfied with the drubbing they got here but want it "rubbed in." I wish you would allow me to say that the able report of the game played here and signed "W. S." was not by his pen at all. If it had been of course it would have read different. W. S.

Recent Legal Decisions.

Right of Surviving Partners to Carry on Same Line of Business.

Upon the dissolution of a partnership firm by the death of one of its members the surviving partners may carry on the same line of business at the same place as was transacted the firm business, without liability to account to the legal representative of the deceased partner for the good will of said firm, in the absence of their own agreement to the contrary. Lobeck v. Lee, Sup. Ct., Neb. 55 N. W. Rep. 650.

Unfair Competition on Part of Vendor of Good Will.

The good will of a business comprises those advantages which may inure to the purchaser from holding himself out to the public as succeeding to an enterprise which has been identified in the past with the name and repute of his predecessor. Any conduct on the part of a vendor of a good will, calculated to impair the value of these advantages, is a breach of promise, implied in sales of every description, that the vendor will not disturb the vendee in the enjoyment of his purchase. Knoedler v. Glaenzer. Cir. Ct. App. 55 Fed. Rep. 895.

JACKSONVILLE, ILL.—The florists at this place are wide awake during the dull season; they are hard at work preparing for winter. The plant of Mr. Jos. Heinl looks fine; he has the finest carnation plants the writer ever saw at this season of the year. He is rebuilding his old houses.

DO YOU WANT an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our trade directory and reference book.

GRAFTON, MASS.—Frank Fisher is about to build an addition 200x14 feet.

St. Louis.

The Houlihan Floral Co., a new firm, has begun the erection, at the west end, of seven greenhouses, 20x100 each. The houses will be devoted principally to the production of cut roses for the wholesale trade. It is the intention to increase the plant to twenty houses next season.

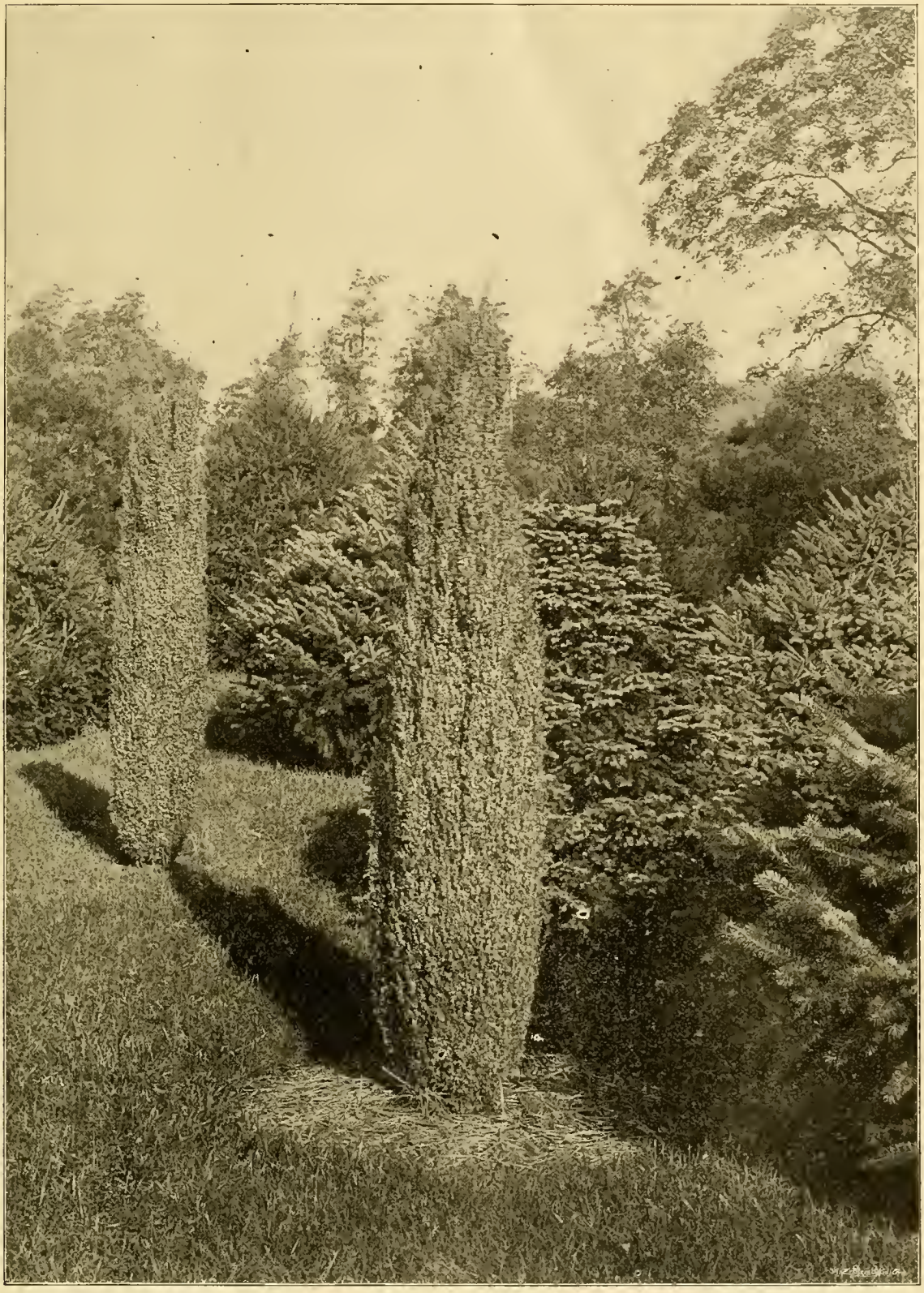
CORFU, N. Y.—Webb Brothers have just completed the re-planting of three of their large greenhouses to roses, the last one containing 1,700 young plants. Their stock consists of American Beauties, Meteors, Mermets, Brides and La France.

WHEN SENDING us newspapers containing items you wish us to note please do not fail to distinctly mark the item so it can be easily found, as we can not spare the time to hunt through the mass of papers sent us for unmarked items.

WE request subscribers to make remittance by draft or money order when renewing subscriptions, and to keep a record of the numbers and dates of same. This is to guard against losses in the mails.

CHESTER, PA.—Thomas Delahunt, the Chester florist, is building two new greenhouses, each 20x100 feet.

OUR
TRADE
DIRECTORY
AND
REFERENCE
BOOK
WITH
CORRECTION
SHEET
FOR
1893
$2.00.
AMERICAN
FLORIST
COMPANY,
CHICAGO.



IRISH JUNIPERS AT DOSORIS.

THE ABOVE IS A SPECIMEN OF THE ILLUSTRATIONS USED IN

GARDENING

A SEMI-MONTHLY JOURNAL FOR AMATEURS IN GARDENING.

EDITED BY

WILLIAM FALCONER.

SUBSCRIPTION PRICE $1.00 A YEAR. 24 NUMBERS.

You will benefit your business by getting this publication into the hands of your customers.

THE GARDENING COMPANY,

Monon Building, CHICAGO.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

A World's Horticultural Society.

At meetings held August 21 and 22 in the office of the Chief of the Horticultural Department of the World's Fair, action was taken looking to the organization of the "World's Horticultural Society." While the meeting was not as representative as could be wished and action was rather hastily taken, it is to be hoped that the errors of haste may be corrected and the work laid out on the broad lines necessary to make such a society of real and permanent value. The meeting even went so far as to elect officers, which are as follows: President, P. J. Berckmans of Georgia; Vice-President, Henri L. de Vilmorin of France; Secretary-Treasurer, Geo. Nicholson of England. Under the plan adopted the president is to appoint a secretary-treasurer for each country represented in the society. One plan was that the society should be, if possible, a federation of existing horticultural organizations, that all might work in harmony together in matters of international interest, but an amendment that was adopted provided for individual membership also. Still the whole project is yet in the rough and the plan adopted is so elastic that objectionable features can be eliminated and useful ones added. Some 18 or 20 have handed in their names as members and the list is at present in the office of Chief Samuels in the Horticultural Building at the Fair, where those interested may call and add their names on payment of the individual membership fee, which is $2.

CROMWELL, CONN.—A. N. Pierson has commenced the erection of two new greenhouses, each about 250 feet long.

LIVINGSTON AND THE TOMATO is the title of a book of 172 pages by A. W. Livingston; it contains a variety of information concerning this favorite vegetable, its culture and varieties (A. W. Livingston's Sons, Columbus, Ohio, publishers).

PEORIA, ILL.—Business has been fair for summer trade. Cut flowers scarce and poor quality. Outside of funeral work the florists have had little cut flower work. No storms have struck us, but we are all on a strike for rain. Cole Bros. are pulling down old houses and re-building. The firm of Shoaff & Wiley is dissolved.

NEW ORLEANS.—At the last meeting of the Horticultural Society the annual election of officers took place, with the following result: President, Mathew Cook; vice-president, J. H. Menard; secretary, Paul Ahele; treasurer, John Eblen. The election was followed by a supper. Business is very dull, and the extreme drouth has been very hard on plants outside.

J. B. DEAMUD & CO.

Wholesale Cut Flowers,

45 Lake Street,

Exclusive Agency for CUT FLOWERS grown by MR. O. P. BASSETT. Hinsdale, Ill.

CHICAGO.

HEADQUARTERS FOR BEAUTIES.

THEY SAY That **ASPARAGUS PLUMOSUS NANUS**

at 50 cents a string, 8 to 12 feet in length, is the cheapest and best material for decorating, as it will stand longer and look better than any other green in this hot weather.

ORDER IN LARGE OR SMALL QUANTITIES, FROM

W. H. ELLIOTT, Brighton, Mass.

THE

Boston Co-Operative Flower Growers ASSOCIATION

will remove their Wholesale Cut Flower Market to No. 1 Park Street, and will be all ready for business September 6, 1893.

The rapidly increasing demand for stalls, spaces and advertising space in the market makes it necessary for us to obtain larger quarters. This new market contains three times the floor space and is more centrally located than the present one.

There will be an auction sale of the preferences of stalls in the market Tuesday, Sept. 5, 1893, at 9:30 a. m.

ABSTRACT FROM BY-LAWS.

SEC. 3. Any grower who has on becoming a member of this corporation and subsequently establishes a store for the purpose of disposing of his products by retailing or otherwise in the city of Boston or having any connection or interest with any such store, shall be required to withdraw from the corporation.

Advertisers wishing to renew their contracts for the coming year can do so at once. Application for advertising space should be sent to

W. W. TAILBY, Wellesley, Mass.

You Need a Copy

—OF OUR—

Trade Directory

AND

REFERENCE BOOK

if you do not already have one. We will send you one together with our Supplement for 1893 for $2.00.

AMERICAN FLORIST CO.,

P. O. Drawer 164. CHICAGO.

FOR SALE.

THE CUTS

USED IN ILLUSTRATING THIS PAPER.

Write for prices on any which you have seen in previous issues and would like.

AMERICAN FLORIST CO.

CHICAGO.

GREENHOUSE HEATING.

BY A. B. FOWLER.

Explains fully all the best systems of heating greenhouses by both hot water and low-pressure steam. Tells you the points to consider in selecting an apparatus. How to adjust same to various locations; gives the results of the latest scientific experiments. Shows how to compute the number of feet of pipe required for a given space; draft and other important matters.

It is highly commended by Mr. John Thorpe and others. Postpaid, 75c.

Sent on receipt of price. Address,

AMERICAN FLORIST, CHICAGO.

WHOLESALE FLORISTS

La Roche & Stahl

N. E. CORNER

13th & Chestnut Sts.,

PHILADELPHIA.

SAMUEL S. PENNOCK,

Wholesale Florist

REMOVED TO REAR OF 42 S. 16th ST.,

Philadelphia, Pa.

THE SMILAX KING!

Who? KOFFMAN,

Where? WALDEN. Orange Co., N. Y.

What? **SMILAX**

25c. a string; 20c. a string by the hundred; 18c. a string by the thousand.

When? ALL THE YEAR AROUND.

And he pays the Express.

HARDY CUT FERNS

LAUREL FESTOONING, ETC.

The only place in the world where you can Always get them,

H. E. Hartford,

18 Chapman Place, BOSTON, MASS.

CATALOGUE PRINTING. ELECTROTYPING.

Done with expert ability for Florists, Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.,

HARRISBURG, PA.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO.
Western Agent for the GREAT ANTIPEST.

Kennicott Bros. Co.
WHOLESALE CUT FLOWERS,
34 & 36 RANDOLPH STREET,
CHICAGO, ILL.
WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
126 Dearborn Street, CHICAGO.
Store Closes Nights 9 P. M.; Sunday 2 P. M.

NILES CENTER FLORAL CO.
Incorporated.
WHOLESALE GROWERS OF
CUT FLOWERS of ALL KINDS
and Dealers in FLORISTS' SUPPLIES.
CHAS. W. McKELLAR, Mgr.
In Chicago Cut Flower Exchange.
45 Lake St., CHICAGO.

M. OLSON,
Wholesale FLORIST,
66 WABASH AVENUE,
Telephone 4786. CHICAGO, ILL.

T. J. CORBREY,
Wholesale and Commission
FLORIST,
45 Lake St., CHICAGO, ILL.
In Chicago Cut Flower Exchange. . . .

A. G. PRINCE & CO.,
Wholesale and Commission
FLORISTS,
45 LAKE STREET,
In Chicago Cut Flower Exchange. CHICAGO.

DAN'L B. LONG,
COMMISSION • FLORIST,
495 Washington St., BUFFALO, N. Y.
FORCING BULBS, FLORISTS' SUPPLIES,
LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application.

H. L. SUNDERBRUCH,
WHOLESALE FLORIST
4TH & WALNUT STREETS,
Cincinnati, O.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

Wholesale Market.

Cut Flowers.

	NEW YORK, Aug. 22.
Roses	1.00@ 3.00
" Beauty	5.00@15.00
Carnations	.25@ .50
Valley	3.00@ 4.00
Sweet Peas, per 100 bunches	.50
Asters	1.00
Adiantums	1.00
Smilax	15.00

	BOSTON, Aug. 22.
Roses	2.00@ 6.00
Carnations	.75@ 1.00
Asters	.50
Gladioli	2.00@ 6.00
Lily of the valley	4 00
Stephanotis	1.00
Smilax	12.50
Asparagus plumosus	50.00
Adiantum	1.00

	PHILADELPHIA, Aug. 22.
Roses	2.00@ 3.00
" Beauties	15.00@20.00
" Meteors	6.00
Carnations	.75@ 1.00
Asters	1.00
Sweet peas	.25@ .30
Gladiolus	5.00
Valley	4.00
Pond lilies	.50
White hollyhocks	.75@ 1.00
Balsams	.25@ .50
Adiantum	.75@ 1.00
Smilax	15.00
Asparagus	50.00

	CHICAGO, Aug. 22.
Roses, Perles, Guillot, Niphetos	2.00@ 3.00
" Albany, Bride	3.00@ 4.00
" Meteor	5.00
" Beauties	8.00@15.00
Carnations	.50@ 1.00
Sweet Peas	.12
Auratum	6.00@ 8.00
Gladiolus, longiflorum	4.00@ 6.00
Cornflowers	.20
Asters	.60
Hollyhocks, white	1.00
Valley	1.00@ 3.00
Dahlias	1.00
Smilax	12.00@16.00
Asparagus	60.00

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers and Florists' Supplies
WHOLESALE.
67 Bromfield Street, BOSTON, MASS.

WHOLESALE FLORISTS,
JOBBERS IN . . . FLORISTS' SUPPLIES, FLORISTS' VASES.
METS,
BRIDES,
GONTIERS,
CARNATIONS,
ALWAYS ON HAND.
1 Music Hall Place,
BOSTON, MASS.
HORTICULTURAL AUCTIONEERS. . .

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St., **BOSTON, MASS.**
Mention American Florist.

Send for a Copy OF OUR
TRADE DIRECTORY
AND REFERENCE BOOK.
PRICE $2.00.
AMERICAN FLORIST CO.,
P. O. Drawer 164. CHICAGO, ILL.

CUT SMILAX,
15 cts. per string till November 1st. Quality first-class.
Special attention to orders by wire.
J. E. BONSALL & SON, 308 Garfield Ave., Salem, O

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN AND SHIPPERS OF
Choice Flowers.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST,
32 West 30th Street, NEW YORK.
Roses Shipped to all Points. Price list on application.

HUNTER & PURDY,
WHOLESALE DEALERS IN
CUT FLOWERS
51 W. 30th St., NEW YORK.
FRANK D. HUNTER. JAMES PURDY, Formerly 112 W. 40th St

JAMES HART,
WHOLESALE FLORIST,
117 W. 30TH ST., NEW YORK.
The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHRS,
WHOLESALE
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.
Established 1879.

MILLANG BROS.,
Wholesale Florists,
17 WEST 28TH STREET,
NEW YORK.
BRANCH: Cut Flower Exchange, 408 E. 34th Street.

MICHAEL A. HART,
Wholesale and Commission Florist
113 WEST 30TH STREET,
. . . NEW YORK.
THE FINEST ROSES AND CARNATIONS.
Branch, at Cut Flower Exchange, 408 E. 34th St.

EDWARD C. HORAN,
34 W. 29th Street, NEW YORK,
Wholesale Florist
Careful Shipping to all parts of the country.
Price list on application.

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
WHOLESALE
FLORIST,
1122 PINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

W. ELLISON,
WHOLESALE
Cut Flowers and Florists' Supplies
1402 PINE STEET,
St. Louis, Mo.

Florists' Hail Association.

The annual meeting of the directors of the Florists' Hail Association, held at St. Louis, elected the following officers: J. M. Jordan, president; James Horan, vice-president; John G. Esler, secretary; M. A. Hunt, treasurer. Mr. J. C. Vaughan, the former treasurer, felt unwilling to retain the office unless a sufficient salary could be paid to secure an assistant. No amendment having been offered to ask for such increase the only alternative was to elect another treasurer, and the directors were more than fortunate in securing Mr. M. A. Hunt for the position. Mr. E. G. Hill, the first treasurer, dropped the office because he found it impossible to give it his attention, and Mr. Vaughan now does likewise. Very few persons know the amount of work that is thrown upon the executive officials of the association, and those who have filled the positions heretofore have done a great deal of hard work to make the association successful with but trifling compensation.

JOHN G. ESLER.

WILLIAMSPORT, PA.—Evenden Brothers have finished building a handsome range of new greenhouses, comprising one 18-foot even span house for carnations and two three-quarter span 18-foot rose houses. Each of the rose houses have a violet pit in front and a propagating house at the back. All the houses are 110 feet long and will be heated with steam. The rose houses are planted with Perles, Brides, Mermets and Niphetos, and the carnation house and violet pits are being rapidly prepared to receive their occupants. The steadily increasing trade of Messrs. Evenden Bros., has rendered this addition necessary.

THE ANNUAL REPORT of the American Association of Nurserymen for 1893 has been issued. It contains a full record of the proceedings of the last convention and like all the reports of this association is an exceedingly interesting and valuable document to the nurserymen of the country. Membership in the association (which entitles to the report) may be had on application to the secretary, Mr. George C. Seager, Rochester, N. Y. The annual fee is $2.

WEST CHESTER, PA.—The greenhouses connected with the nurseries of Hoopes Bros. & Thomas, together with a large part of the contents, were destroyed by fire on August 13. Supposed to have been incendiary. Loss $5,000.

SPRINGFIELD, MASS.—President Geo. S. Lewis of the Hampden County Horticultural Society has resigned. The midsummer show of the society on August 11 and 12 was a pronounced success.

YOU CAN'T AFFORD to do business without a copy of our trade directory and reference book.

THE AMERICAN FLORIST and *Gardening* together to one address for $1.75. Send orders to the American Florist Co.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By an experienced florist and gardener. Address E. HAY, care Mrs. Josephsen, 200 No. Green St., Chicago.

SITUATION WANTED—As foreman in commercial place; age 30; married. First-class references. Address ROSEN, box 61, Providence, R. I.

SITUATION WANTED—By a florist, single, with over 20 years' experience, on private or commercial place. References. GEO. MUNICH, Attica, N. Y.

SITUATION WANTED—As head gardener on private place, by first-class florist and gardener; 12 years practical experience; single. Address, stating wages, J W S, Springfield, Ohio.

SITUATION WANTED—By first class German florist and landscape gardener, commercial or private; 22 years experience; married, small family; age 36; best of references Address C B, care American Florist. Chicago.

SITUATION WANTED—By a first class florist, who understands the business thoroughly in all its branches; 11 years experience; good references; Scandinavian; single. Address JOHN LANG, Lakewood Greenhouses, Minneapolis, Minn.

SITUATION WANTED—By a first-class florist, with 14 years' experience in growing roses, palms and general greenhouse stock. Good designer and decorator; single; sober and steady. Good references. Address H, care American Florist, Chicago.

SITUATION WANTED—As head florist or gardener. Thoroughly experienced in growing cut flowers, bedding plants, vegetables, mushrooms and small fruits; single. Best of references. Address, stating wages, H S, box 56, Clifton, Green Co., Ohio.

SITUATION WANTED—By a good florist and gardener; well up in the growing of roshs, carnations, violets and greenhouse plants; commercial or private; 15 years' experience; married, no family; English. Address J D, 62 Mansion St., Poughkeepsie, N. Y.

SITUATION WANTED—By a first class florist and gardener as foreman or head gardener, commercial place preferred; 30 years experience in all branches; Austrian married, no family. Address T. A. KASCHKA, 315 8th St., N. W., Washington, D. C.

SITUATION WANTED—In Wisconsin or adjoining state, either private or assistant in commercial place. Successful experience in propagating and growing roses and carnations; also general stock; age 28; single. Address F C, box 918, Madison, Wis.

SITUATION WANTED—By a German, 22 years of age; having 7 years' experience in Germany and in Switzerland in roses, carnations and plants; 1 year in America, and speak some English. Best of references given. Address P. MADER, Frankfort, Ky.

SITUATION WANTED—By a first-class florist and gardener; 22 years old. Also good and quick designer. Able to take charge of private or commercial place. First-class references. Address CL. WONNEMANN, (Greenhouses) Douglas Boul. & Lawndale Ave., Chicago.

SITUATION WANTED—As foreman on a private place by an honest, modest, single man, 25 years of age, German; well experienced in all branches of the business. First-class recommendations; open for engagement any time desired. Please address M S, care American Florist, Chicago.

SITUATION WANTED—By competent florist and gardener, desires position in commercial or private place as manager or foreman; well up in growing of roses, carnations, orchids and general bedding plants. Only reliable party need answer. Can give best of references of leading florists of U. S. and England. Address S C, P. O. Box 457, La Grange, Ill.

WANTED—800 feet second-hand 1-inch iron pipe. I. M. BRAINARD, Gouverneur, N. Y.

WANTED TO RENT—A few greenhouses. Address X, care American Florist, Chicago.

WANTED—250 feet of 2-inch pipe in good condition. Cheap. Address at once, Box 97, Fort Gratiot, Mich.

WANTED—Between 400 and 600 ft. 4-inch pipe and boiler. Must be cheap. Address O, care American Florist, Chicago.

WANTED—A man with experience; able to propagate and grow a general assortment of plants—for catalogue trade. WEBSTER BROS., Hamilton, Ont.

WANTED—150 feet 4-inch cast iron pipe and small hot water boiler. Must be in good condition. Address F. H. ELLSWORTH, 138 York St., New Haven, Conn.

WANTED—A young florist who wants to improve and be advanced can find a good situation. Must have a fair knowledge of all branches of retail trade. State wages wanted with board. Address J. W. DAYHOFF, Hagerstown, Md.

WANTED—Seedsman and gardener, by a New York seed house, a gardener who has a fair knowledge of flower seeds and bulbs Is required most of the time as a counter hand. State experience, and salary expected. None need apply who cannot come well recommended as sober, quick and willing. Address LOCK BOX 2449, New York P. O.

FOR SALE—Some very nice fig trees in painted tubs, cheap. Address F. KNIESCHE, 18 Hawthorne Ave., Chicago.

FOR SALE—1,500 feet of 4-inch pipe—good as new—and also fittings. Price $10.00 per 100; $80.00 per 1000. MRS. GEO. WALDBAUER, Saginaw, Mich.

FOR SALE—The rarest chance to procure a well established business. Only $300 cash required; in an excellent neighborhood. For particulars, address ISAAC A. PASSMORE, Oxford, Pa.

FOR SALE—Cheap for cash, 1 No. 4 Weathered hot water boiler with about 600 ft. of 4-inch pipe; all in good order. Address G. VAN BOCHOVE & BRO., Kalamazoo, Mich.

FOR SALE—2,000 feet 4-inch pipe at 7 cents a foot. Tees and elbows at 15 cents. Also ½ doz. valves. Address J. F. KLIMMER. Desplaines and Harrison Ave., Oak Park, Ill.

FOR RENT—12 greenhouses, at moderate rate. Address YOUNG, Narberth P. O., Penna. Via P. R. R.

FOR SALE WITHOUT RESERVE.
Collection of Palms: fine specimens of Latania borbonica, Arecas, Phœnix, Scaforthias, Kentias and other rare varieties, varying in height from 4 ft. to 8 or 9 ft.; some smaller plants. For particulars address **Manager Gordon Park Greenhouses,** GLENVILLE, Cuyahoga Co., OHIO.

$500 WILL BUY
a greenhouse in a city of 13,000 inhabitants, 65x25 with 600 roses in a good healthy condition and suitable for winter blooming. This is a fine chance for some enterprising young man. For particulars, address C, care American Florist, Chicago.

FOR SALE OR RENT.
Rose and cut flower growing plant containing about 35,000 square feet of glass; houses heated by steam and hot water; all in good condition; well stocked with roses, ferns, palms, etc. Only 18 minutes ride from center of city. If you mean business, address **FLORIST, care Chas. E. Prather, Louisville, Ky.**

FOR SALE OR TO RENT.

The following greenhouse property, situated on the outskirts of Springfield, the City of Houses; or will sell Greenhouses, Stock and Fixtures and give ten years' lease of 2 acres land. Ten houses in all—5 houses, 10 feet wide, 65 feet long; 4 houses, 18 feet wide, 65 feet long; 1 house, 18 feet wide, 65 feet long. Steam plant! New double Florida Boiler. Stock in good condition, with a large and extra good home market. This is an opportunity in a life-time, as present owner has other interests to look after. If you are looking for a chance, apply at once to

N. D. WINTER.
5 Elm Street, SPRINGFIELD, MASS.

Phœnix rupicola.

This useful and beautiful Date Palm in **EXTRA FINE PLANTS,** growing in from 7 to 10-inch pots, from $3.50 to $7.50 each, according to size.

EDWIN LONSDALE, Wyndmoor,
STATION "G," PHILADELPHIA.
(Chestnut Hill P. O.)

YOUNG PALMS.

TO MAKE ROOM WE OFFER A BARGAIN IN

LATANIAS, 4-inch stuff, grown cold, well rooted, 3 to 5 character leaves, ready for 5-inch pots, per dozen, $4.00; per 100, $30.00.

PHŒNIX RECLINATA, 5-inch, good value at doz. $5.00.

LILIUM CANDIDUM, large, plump, solid bulbs, per 100 $2.75; per 1000 $23.00.

FREESIAS, clean, large, healthy bulbs, first size $4.50; select $7.50 per 1000.

ROMANS, PAPER WHITE NARCISSUS, and a **FULL LINE** of all Fall Stock.

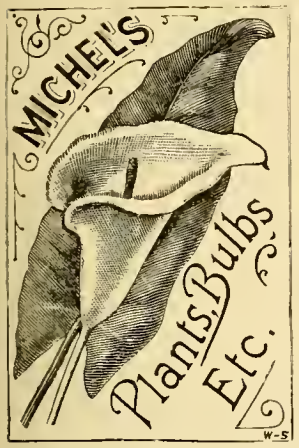
ROSE C. SOUPERT, 2½-inch, fine stuff, per 100 $3.50; 3½-inch, per 100 $8 00.

VAUGHAN'S INTERNATIONAL PANSY MIXTURE,
Now Ready, is a World Beater.

NEW CROP SEED, per ⅛ oz. $1.50; oz. $10.00. Also separate colors in great assortment.

Vaughan's Seed Store,

148 W. Washington St., CHICAGO. 26 Barclay St., NEW YORK.



Write for Wholesale List.

MICHEL PLANT AND BULB CO.,
ST. LOUIS, MO.

Mention American Florist.

ONION SEED

OUR SPECIALTY.

Grown from selected Onions and the purest stock in the United States.

1893 CROP 1893

Yellow Globe Danvers,
Yellow Flat Danvers,
Extra Early Red,
Wethersfield.
} Write for Prices.

COX SEED AND PLANT CO.
SAN FRANCISCO, CAL.

SEND for Catalogue of



JAPAN BULBS, SEEDS and SHRUBS, ARAUCARIAS, TREE FERNS, AUSTRALIAN PALM SEEDS, CALIFORIA BULBS and SEEDS to

H. H. BERGER & CO.,
Established 1878. SAN FRANCISCO, CAL.

Bulbs & Plants.

FOR CATALOGUES, ADDRESS

C. H. JOOSTEN,
IMPORTER,
3 COENTIES SLIP, NEW YORK.

CHOICE SWEET PEAS.

Being the largest growers of the above in the world the trade are invited to send a list of their requirements and secure low prices for Fall delivery.

SHERWOOD HALL NURSERY CO.
Menlo Park and San Francisco, Cal.

SMILAX.

First-class, from 2½-inch pots, $2.50 per 100; $20 00 per 1000. Sample free.

CYCLAMEN persicum giganteum, 3-in. pots, $6 a 100

Address **J. G. Burrow,**
FISHKILL, N. Y.

SMILAX

Extra Strong Plants, from 2¼-inch pots only.
$1.75 per 100. $16.00 per 1000.

Heite Floral Company
712 Linwood Ave., Kansas City, Mo.

Berlin Lily of the Valley Pips,

A 1 QUALITY.
I. MARTENS, HAMBURG, GERMANY.

MAMMOTH BULBS

LILIUM HARRISII FOR EXHIBITION

purposes and for growing **SPECIMEN PLANTS.** Very choice and scarce.
PRICE, $25.00 per 100.

Also a fine lot of 5 to 7, and 9 to 11
PRICE, 5 to 7, $3.00 per 100; $25.00 per 1000.
PRICE, 9 to 11, $12.00 per 100.

F. R. PIERSON COMPANY,
Tarrytown-on-Hudson, N. Y.

HULSEBOSCH BROS.,
BULB AND PLANT GROWERS,
OVERVEEN, near Haarlem, HOLLAND.

	Per 100	1000
Lilium Harrisii, 4 to 5-inch in circ.	$2.20	$19.00
" " 5 to 7-inch in circ.	3.00	24.00
" " 7 to 9-inch in circ	5.25	47.00
" " 9 to 12-inch in circ.	11.00	100.00
Lilium Longiflorum 10 per cent dearer than Lilium Harrisii.		
Roman Hyacinths, extra selected	2.50	22.00
" " top roots	3.00	25.00
Narcis. Totus Albus, extra selected	1.00	7.50
" " " Grandiflor'm, ext s'l'c'd	1.30	11.00

Fall Wholesale Catalogue now ready. Address

A. HULSEBOSCH,
P. O. Box 3118. Warehouse 58 West Street,
NEW YORK CITY.

Bulbs.

New List now ready; free to applicants. Address . . .

August Rölker & Sons,
P. O. Station E, NEW YORK.

G. J. MOFFATT,
Manufactnrer of
PAPER BAGS AND ENVELOPES
Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN, CONN.

Cyclamen Seeds.

KOCH'S SUPERB PRIZE CYCLAMEN,
THE FINEST STRAIN IN THE WORLD.

Bright dark red	1000 seeds	$4.50
Rose of Marienthal	1000 seeds	4.50
White with carmine eye	1000 seeds	3.75
Mont Blanc, extra	1000 seeds	6.25

Cash with order.

LUDWIG KOCH, Wandsbek, Hamburg, Germany.

PANSIES.

If you plant pansies, it will be to your advantage to plant at least one hundred of the beautiful strain I am offering for sale, as a trial. The flowers are very large and beautifully marked. Fine plants ready Sept. 1 and after, at

65c. per 100, and $5.00 per 1000.

Cash with order. Money Order Office, Lancaster, Pa.

ELMER J. WEAVER, Ronks, Lanc. Co., Pa.

We Sell Mushroom Spawn.

LILIUM HARRISII AND DUTCH BULBS,
Special Low Prices to Florists and Dealers.

WEEBER & DON,
Seed Merchants and Growers,
114 Chambers St., New York.

PLEASE WRITE on your printed letter head when addressing our advertisers. If you have no printed letter head, then enclose your business card or bill head.

DO YOU WANT a list of the leading cemetery superintendents? You will find such a list in our new trade directory and reference book.

HARRISII,
ROMANS.

Our stock is unsurpassed, the bulbs are solid, thoroughly ripened and cured, well formed and up to measurement.

FREESIAS.

Select Stock. Per 100, 75 cents; per 1,000, $4.50.

PANSY SEED.

BARNARD'S FLORIST MIXTURE is popular wherever tried. Trade packet, 25 cts.; ⅛ ounce, $1.00.

W. W. Barnard & Co.
6 and 8 N. Clark Street, CHICAGO.

NOW READY.

ROMANS,
HARRISII,
NARCISSUS,
P. W. GRANDIFLORA,
CANDIDUMS.

WISCONSIN FLOWER EXCHANGE,
468 Milwaukee St., Milwaukee, Wis.



TRY DREER'S
GARDEN SEEDS,
Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
HENRY A. DREER,
Philadelphia, Pa.

Mention American Florist.

MARIE LOUISE VIOLETS

Field grown plants. Fine stock.

PER HUNDRED.....$10.00
PER THOUSAND..... 80.00
500 at 1000 rate.

C. R. KNAPP,
P. O. box 62. NEW HAMBURGH, N. Y.

TRADE MARKS. COPYRIGHTS.



SOLICITOR OF U. S. AND FOREIGN PATENTS.
Atlantic Building, Washington, D. C.
(Send sketch or model for free examination as to patentability.)

BULBS! BULBS!

Lilium Auratum, Spec. Rubrum, Spec. Album, Longiflorum, etc. Order now.

Callas, Callas, at lowest rates: Fresh Cut Cycas leaves, prices and sizes to suit all. Fresh imported Cycas, lowest prices. Camellias, Pæonias, Japan Maples, and for general Japanese stock seeds. Remember we guarantee sound delivery, still goods travel at owner's risk. Apply to

F. GONZALEZ & CO.,
Nursery and Greenhouses, 303 to 312 Wayne Street,
SAN FRANCISCO, CAL.

Please mention the American Florist every time you write any of the advertisers on this page.

Baltimore.

The last meeting of the club was very well attended. Secretary McRoberts read a short paper on herbaceous perennials, giving a list of twenty-five varieties which he thought worthy of cultivation.

Among the questions answered or discussed were:

"Should rose benches be drained or will chopped sod do?" Answered: Sod will do for ordinary shallow benches.

"Is a windmill a satisfactory power for water supply?" A hydraulic ram was suggested as preferable where a head of water could be had, but a windmill seemed to give more general satisfaction if connected with a large tank.

"What is the difference in effect on plants of manure from grain-fed cows and from those fed on distillery slop?" With no certain figures of careful experiments nothing definite could be determined on this, but Mr. E. Herman voiced the opinion of the club in saying that he considered manure from distillery-fed cows almost worthless.

A little trip to the florists about the entrance to Baltimore Cemetery will show any one several of the neatest and most profitable small establishments in the city. In a short distance of each other, half a block or so, are located Messrs. E. Herrman, E. Kress, Hy. Bauer, and just around the corner, on Gay street, Mr. Wm. Fraser has his place. Stopping in at "Frenchie's," to use the boys' pet name for him, *i. e.* Mr. E. Herman, one can see how much can be produced in a greenhouse if one is only industrious and skillful. Every corner is occupied, and occupied with paying stuff. Under the benches Harrisii were awaiting the time when some of the plants overhead should make way for them. It is the old case of a little farm well tilled, and it may be questioned whether Brother Herman is not happier and more profitably employed than many another with dozens of houses and employes, and the advertisement, catalogue, correspondent, and other trials annexed.

At this place was an ingenious arrangement for piling hard coal, being nothing more than a wall built of unused flats, each flat filled with coal. It seemed to answer quite as well as the large lumps that are generally used to wall up soft or bituminous coal.

The Cactus Club will hold their annual exhibition of their prickly darlings at Raines Hall September 25, 26 and 27. Mr. Fred Reineke, 1614 Clinton avenue, is the chairman of the exhibition committee and will be glad to hear from any one having plants of that kind to exhibit. Mr. Jno. A. Baker is president of the club. Fred Lance secretary.

The drought still continues and field-grown carnations and all other outside stuff suffers terribly. Cut flower market is unchanged. MACK.

PRIMROSES.

Fine stocky plants, now ready for 3-in. pots. Flowers brilliant colors; large; fringed; blooming upon tall stems. 12 sorts.

Price for the single.....per 100 plants, $ 2.50
" " " per 1000 plants, 20.00
" " double (white & red).....per 100, 5.00

We send additional plants with every order to help pay the express charges.

Address **HENRY S. RUPP & SONS,**
Shiremanstown, Pa.
Mention American Florist.

Mention the American Florist when writing to advertisers on this page.

Cape Flowers, new crop in best white quality at $1.00 the lb.; 10 lb. lots, $9 net.

Cycas Leaves (Sago Palms), natural prepared, equal to fresh cut in appearance, from 28-in. upwards, at 40c., 45c., 50c., 60c., 75c. and $1.00 each, according to length.

Metal Designs, Wreaths, Crosses, Anchors, etc. in the latest French styles, from 50 cents net apiece upwards.

Baskets of all styles, Plain and Fancy, for School Commencements, Dinners, Receptions, Favors, etc.

Supplies of all kinds, such as Bouquet Papers, Wax Paper, Foil, Immortelles, Letters, Wire Designs, Funeral Sheaves, Doves, etc. For prices consult our

Trade Catalogue, mailed free.

August Rölker & Sons,
136 & 138 W. 24th St., P. O. Station E. **New York.**



WHITE DOVES
FOR FLORISTS.

Largest and finest stock in the United States. Write for prices to

S. J. RUSSELL,
850 Montgomery St., Jersey City, N. J.

FOR SALE BY Messrs. F. E. McAllister, A. Herrmann, N. Steffens and Reed & Keller, New York; W. C. Krick, Brooklyn, N. Y.; H. Bayersdorfer & Co., Ernst Kaufmann and Marschuetz & Co., Philadelphia, Pa.; C. Ribsam & Sons, Trenton, N. J.; J. M. McCullough's Sons and B. P. Critchell & Co., Cincinnati, O.; J. C. Vaughan, Chicago, Ill.; Wisconsin Flower Exchange and Currie Bros., Milwaukee, Wis.; C. A. Kuehn, S. Mount & Co., C. Young & Sons Co., Wm Ellison and Jordan Floral Co., St. Louis, Mo.; Ed. S. Schmid, Washington, D. C.; G. W. Currey & Co. and Eckhardt & Co., Nashville, Tenn.; T. W. Wood & Sons, Richmond, Va.; U. J. Virgin, New Orleans, La.; D. B. Long, Buffalo, N. Y.; F. C. Huntington & Co., Indianapolis, Ind.; J. A. Simmers, Toronto, Ont.

Mention American Florist

TREES.

DO NOT let this opportunity pass. Closing the present fall the stock now remaining at a low wholesale rate, comprises extra large

Norway, Silver and Red Maples, Elms,
CATALPA, SMALLER NORWAY,
Sugar, Silver Sycamore, Red Maples, Elms, Catalpa, White Ash, American and European Lindens, 15 cents to $1.00 each.
50 VARS. SHRUBS, PEAR TREES AND CURRANTS.

Contracts made now. We will purchase for parties stock we are out of on a low commission.

P. H. FOSTER, Babylon, N. Y.

Notice of Dissolution.

August 1st, 1893.

Notice is hereby given that the co-partnership heretofore existing between David Allan and David Fisher, doing business as florists and nurserymen, in that part of Woburn, County of Middlesex and Commonwealth of Massachusetts, called "Montvale," under the firm and style of "Fisher Brothers & Co." has been this day, by mutual consent, dissolved.

Said business will be hereafter carried on by David Fisher alone, who assumes all liabilities of said firm and to whom all claims belonging to said firm should be paid. Signed DAVID ALLAN,
DAVID FISHER.

ESTABLISHED IN 1849.

G. BENARD, ORLEANS, FRANCE.

ROSES and YOUNG PLANTS a specialty.
Large stock of fine transplanted Ampelopsis Veitchii, at reduced prices according to quantity.
Catalogue sent free to applicants.
Agents for the United States.

C. RAOUX, 296 Pearl St., New York, N. Y.
E. BENARD, P. O. Box 620, San Diego, Cal.

$20.00 buys 250 well grown Chrysanthemums from 5-inch pots.

Carnations from open ground.....6 to 8 cts.
Cyclamens, large bulbs 8 to 10 cts.
Smilax, strong 3-inch pots 4 cts.
Niphetos Roses, 3½-inch pots 5 cts.
Violets, field-grown 6 cts.

McCREA & COLE, Battle Creek, Mich.

CARNATIONS

Rooted Cuttings all sold or planted out.

FIELD GROWN PLANTS IN SEASON.

Correspondence Solicited.

C. J. PENNOCK, THE PINES,
Chester Co., KENNETT SQUARE, PA.

CARNATIONS
ALL
THE LEADING VARIETIES.
R. T. LOMBARD,
Wayland, Mass.

FIELD GROWN CARNATIONS.

Fine healthy plants for **Winter Bloom.**

W. R. SHELMIRE,
CHESTER CO., AVONDALE, PA.
Send for Circular.

CARNATIONS,

Grace Wilder, Tidal Wave and Silver Spray, **BOUVARDIAS,** Pres. Cleveland, Pres. Garfield and Bridal Bouquet, single white. Also Kentias, Arecas, Latania Borbonica, etc. Ready Sept. 1st.

WM. A. BOCK, N. Cambridge, Mass.

FIELD-GROWN
CARNATIONS

Best new and standard varieties. Good stock and low prices.
Send for price list of 45 leading kinds. . . .

Geo. Hancock,
GRAND HAVEN, MICH.

CARNATIONS

SURPLUS STOCK OF
SILVER SPRAY, TIDAL WAVE and MRS. FISHER,

For sale. Write for prices.

PAUL F. LAU & CO.,
River Grove, Ill.

FIELD-GROWN
CARNATIONS

All the leading varieties. For prices write to

J. A. TRACHT & SON, Galion, Ohio.

SMILAX.

A large stock of strong well grown plants from 2¼-inch pots, at $1.50 per 100; $12.00 per 1000.

PANSY PLANTS for fall. Choicest strains.

CYCLAMENS, both 1 and 2 year bulbs. Prices on application.

CLEMATIS, large flowering, for fall delivery. A very large stock and assortment. Write for prices I can suit you both on plants and prices.

F. A. BALLER, Bloomington, Ill.

E. G. HILL & CO.,
Wholesale Florists
RICHMOND, INDIANA.

OUR
Sash Lifter AND Hinges

will do the work and cost you less than any other. Send your name and address and we will mail you description and price.

BAY STATE HARDWARE CO.
272 Freeport Street, BOSTON, MASS.

BEAUTY

and **BRIDESMAID**, fine 3-inch now ready for planting, $8.00 per 100. Also **Perle, Meteor, Cusin, Wootton, Soupert, Hoste, Sunset, Mermet** and **Bride**, $6 per 100. A splendid stock for late planters.

M. A. HUNT, Terre Haute, Ind.

ROSES

BRIDES, MERMETS, BON SILENE, NIPHETOS, CUSINS, WATTEVILLES AND JACQUEMINOTS.

25 000 fine plants in 3-inch pots, at a bargain. Will quote you prices on application. IF WANTED SPEAK QUICK.

ROSES

A. N. PIERSON, CROMWELL, CONN.

ROSES.

FINE STOCK FOR PLANTING.

PERLE,	SUNSET,
BRIDE,	MERMET,
METEOR,	ALBANY,
NIPHETOS,	HOSTE,

2½-in. $4 per 100; $30 per 1000.
3-inch, $6 per 100; $50 per 1000.

BROWN & CANFIELD,

. . . . SPRINGFIELD, ILL.

ROSES—SURPLUS STOCK.

HARD TIMES PRICES.

We must have the room these roses occupy, and will close them out at the very low price here named. Stock clean and healthy.

230	Perles	4-inch, 6 cents
800	Perles	2½-in. 3 "
200	Perles	2-inch, 2 "
50	Wootton	4-inch, 6 "
200	Wootton	3-inch, 4 "
150	Wootton	2½-in. 3 "
75	White La France	3-inch, 4 "
100	Mermets	4-inch, 5 "
250	Mme. Vasset	2-inch, 2 "
75	Brides	3-inch, 4 "
60	Meteors	4-inch, 6 "
450	Meteors	3-inch, 4 "
150	Meteors	2½-in. 3 "
800	K. A. Victoria	2½-in. 10 "
2000	Testonts	2½-in. $9 per 100; $80 per 1000

Cash with order, 5 per cent. discount.

W. W. COLES,
Maple Hill Rose Farm, KOKOMO, IND.

ROSES. ROSES. ROSES.

Large stock, best varieties, in fine condition for immediate planting, 3-in. $7 per 100; 4-in. $9.
Adiantum cuneatum, 3-inch, $5.00 per 100.
Double White Primulas, 2-inch, $6.00 per 100.
100 varieties best Old and New Chrysanthemums, 2½-inch pots, $3.00 per 100; 4-inch pots, $6.00 per 100.
General greenhouse stock, all sizes. Low prices.

Address **HENRY SMITH,**
130 Monroe St., Grand Rapids, Mich.

ROSES,

STRONG PLANTS,

WRITE FOR PRICES.

Kemble Floral Co.,
OSKALOOSA, IOWA.

10,000 Gen. Jacqueminots.

Pot Grown on their own Roots.

From 5-in. Pots, 16 in. to 18 in. high, $8.00 per 100
From 4 in. Pots, 12 in. to 15 in. high, $6.00 per 100
ENGLISH IVIES, Pot Grown, one year old, 3 to 5 feet high, $5.00 per 100.

Cash with orders. When ordering give directions how to ship.

JOHN RECK, Bridgeport, Connecticut.

ROSES CHEAP FOR CASH.

Perles	3 inch,	$5.00	per 100
Brides	3-inch,	5 00	"
Mermets	3-inch,	5.00	"
Duchess of Albany	3-inch,	6.00	"
Niphetos	3-inch,	5.00	"
Hydrangea Thos. Hogg	2½-in.	4.00	"

CHAS. RAUSS, 220 Moran St., Detroit, Mich.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

10,000 FIRST QUALITY FORCING ROSES

READY FOR IMMEDIATE PLANTING.

Fully equal to those sold last year, and perfectly healthy in every respect.

LA FRANCE, 3-inch pots, $9.00 per hundred; 4-inch pots, $12.00 per hundred.

MERMET, BON SILENE, MME. HOSTE,
PERLE DES JARDINS, SAFRANO, MME. CUSIN,
3-inch pots, $7.00 per 100; 4-inch pots, $10.00 per 100.

SMILAX. Strong plants, 2½-inch pots, $2.50 per hundred; $20.00 per thousand.

J. L. DILLON, Bloomsburg, Pa.

FORCING ROSES.

Good stock—3 AND 4-INCH POTS.

AMERICAN BEAUTY, BRIDE, MERMET, BRIDESMAID, METEOR, PERLE, SUNSET, GONTIER, LA FRANCE.

A. S. MacBEAN, Lakewood, New Jersey.

Forcing Roses.

FINE STOCK, IN 3-INCH POTS.

Perle, Mermet, Bride, Meteor and Bennett.

GEO. W. MILLER, Hinsdale, Ill.

ROSES.

Fine healthy stock. Per 100 P. 1000

Perles, Mermets, The Bride, Sunset, Papa Gontier, Niphetos, Bon silene, La France, Souv. d'un Ami, Duchess of Albany, Mad. Cusin, Mad. de Watteville, from 3-in. pots,	$8.00	$75.00
SMILAX, from 2¼-inch pots	2.50	20.00

Lots of other Fine Stock.

Send for new list.

WOOD BROTHERS,
Fishkill, N. Y.

The Grand New Forcing Rose,

"American Belle."

Prices and full particulars on application.

John Burton, Chestnut Hill, Philadelphia

Auguste van Geert, Ghent, Belgium.

(ESTABLISHED 1808.)

K. J. KUYK,

SUCCESSOR.

Special Culture for the Trade.

ANDROMEDA JAPONICA,	CROTONS,
ANTHURIUMS,	DRACÆNAS,
ARALIA KERKHOVEANA,	ERICAS,
" SIEBOLDII,	EURYA LATIFOLIA,
" VEITCHII,	LILACS FOR FORCING
ARAUCARIAS,	METROSIDEROS SEMP.,
ASPARAGUS PLU. NANUS,	OPHIOPOGON Jaburan. l.v
ASPIDISTRA,	ORCHIDS,
AZALEAS,	PALMS,
BAY TREES,	PANDANUS,
CAMELLIAS,	RHODODENDRONS,

And full strain of Rare Plants and Novelties

BULB FARMS AT

HILLEGOM, HOLLAND.

Ask for catalogue and prices, if not already received.

COMPETITION DEFIED.

THRE. DELARUYE DE MULDER,

NURSERYMAN,

Ledeberg, nr. Ghent, Belgium,

Begs to offer all kinds of Palms, Azalea indica and mollis, Araucaria excelsa and glauca, Aspidistra, green and variegated, all kinds of Dracænas, green, striped and variegated, Begonia and Gloxinia tubers, Rhododendrons, Ficus elastica, green and variegated, Bay Trees, Laurustinus, etc., etc., of all sizes, at the lowest and cheapest market prices, and of an irreproachable culture.

Terms—Cash with order for all unknown purchasers; all packing free for orders with cash exceeding $50.00.

☞Apply for general trade list.

SMILAX.

	Per 100	Per 1000
From 2½-inch pots	$3.00	$25.00
" 2-inch pots	2.50	20.00
" Thumbs	2.00	15.00

Also a limited quantity of PANDANUS UTILIS and LATANIA BORBONICA, strong plants, from 4-inch pots. Price on application.

NATHAN SMITH & SON,
167 W. Maumee St., Adrian, Mich.

Association "Flora"

BOSKOOP, HOLLAND

NURSERIES.

Roses, Clematis, Shrubs, Azaleas, Palms, Herbaceous Plants, Bulbs, Etc.

Catalogue on Application.

P. OUWERKERK,
206 Cambridge Ave., JERSEY CITY, N. J.

When writing to any of the advertisers on this page please mention the American Florist.

St. Louis.

After the excitement of convention week things here appear to be more than usually quiet. The heat has increased somewhat and the lack of rain is making itself more apparent upon shrubbery and lawns outside the reach of city water. Trade is at a standstill, but hopes are entertained that in a short while the returning pilgrims from the various resorts will start it into life again.

C. C. Sanders is building a "short span to the south" house eighty feet long between two of his older houses. Its working will be watched with interest, as it is the only one of its kind in this neighborhood.

Work has been stopped upon the conservatory and rose house being built by S. Kehrman, of the Elleard Floral Company, owing to complications arising from his being away from town. It is expected, however, that as soon as he returns from the east, where he is summering, work will be resumed and finished in short order.

Thompson, Anderson & Kennedy are building a house for Benton Park, converting what was a lean-to into a three-quarter span, virtually making a new house of it; the dimensions are eighty by twenty.

The automatic ventilator that was shown at the convention is to have a practical test in this city. Mr. Schray will fit up a 100x20 foot rose house, built this season, with two machines; and the Michel Plant and Bulb Company have also decided to give them a trial, but to what extent is not as yet known. The outcome will be watched with interest, and if the results obtained are as good as under the old methods they will prove a veritable boon.

The C. Young & Sons Company have recently let the contract for putting in another large boiler so as to have a reserve in case anything should go wrong. It will be larger than the one they have in now, being several feet longer and of a larger diameter; the flues will be the same size, 6-inch. When finished this will give them one of the most complete modern greenhouse heating plants in the country.

Mr. Jablonsky, whose place was inundated this spring owing to the caving in of a temporary sewer, has had a hearing before a referee, and the estate causing the damage has offered to compromise for $600. This is not satisfactory and an appeal has been taken to the Circuit Court. The estate is involved and can only pay creditors about fifty cents on the dollar; this is an additional reason why heavier damages should be awarded.

Mr. Emil Schray is spending some time in Chicago seeing the World's Fair. From present indications there will be quite a few St. Louisians who will be unable to get to the Fair. Mr. James Young has recently returned from a trip to Atlantic City, and is rapidly losing the increased weight obtained by a several weeks' sojourn there. R. F. T.

Special Offer to American Trade.

LOUIS DE SMET,
NURSERYMEN, GHENT, BELGIUM,
OFFER AS SPECIALTIES:
Palms, Azalea indica and mollis, Araucaria excelsa (thousands), Bay Trees, Tuberous Begonias, Gloxinias.
☞ New Trade List on application. . . .

When writing to any of the advertisers on this page please mention the American Florist.

PANSIES.

THE BEST ARE THE CHEAPEST.

SIZE is a strong point in Pansies; when you combine size, color, substance and form they are pretty near right. By careful hybridization and selection I have accomplished this, and the Pansies I send out this Fall will be an agreeable surprise, even to former customers. If you buy Pansies I would be pleased to correspond with you; they will be offered for sale from Aug. 20th to Dec. 1st, at 75c. per 100 or $5 per 1000. Terms cash with order or C. O. D. No seed for sale.

L. B. 496. ALBERT M. HERR, LANCASTER, PA.

Siebrecht & Wadley,
ROSE HILL NURSERIES,
NEW ROCHELLE, N. Y.
Palms,
ORCHIDS
Roses,
and New Plants.
FRESH DRACAENA CANES NOW READY.

ORCHIDS.
The Finest Stock in the World.
SANDER'S,
ST. ALBANS,
ENGLAND.
Thirty minutes from London.
Our Mr. A Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City

Established and Imported
ORCHIDS.
Ig. FORSTERMAN,
Newtown, N. Y.

WHY NOT TRY
A FEW ORCHIDS?
They are Very Cheap. They are Easily Grown. They Sell Well.
They always attract attention in store or greenhouse.
BRACKENRIDGE & CO.,
304 W. Madison St., BALTIMORE, MD.

(ESTABLISHED 1850).
Edmund Van Goppenolle
NURSERYMAN,
MEIRELBEKE, NEAR GHENT, BELGIUM.

Great Culture of Aspidistra, Araucaria Excelsa. PER 100.
Azalea Indica (20,000 disposible), at $20, 25 and 30 PER 1000.
Begonia Tuberous, Best Sorts, 200,000 yearly, at $18
Dracæna, Ferns, Ficus Elastica, Glovinia, - - $22
Hydrangea Paniculata, Laurus Nobilis (Sweet Bays),
Many thousand pairs from all sizes, in Crowns and Pyramids, Lilium, Palms, enormous choice in all kinds at reduced prices. Rhododendron Hybr, Spiræa Japonica.
Price list on application; also to my agents.
C. C. ABEL & CO.,
P. O. BOX 920, NEW YORK.

TO STOTT GARDEN IMP'T CO.,
136 Liberty Street, New York.
Dear Sirs:—We have been using your Distributer and Killmright for six months and consider it a good thing. It is the best thing ever got out. For roses it is particularly good. It cures a rose plant of black spot and mildew and keeps them in a healthy and growing condition. We never use tobacco smoke now. It will certainly ultimately kill the mealy bug. We will keep it right along and want nothing else.
Signed BOLANZ BROS., Akron, O.

See Special Offer Aug. 3 and 17.

ZIRNGIEBEL'S
Giant Market and Giant Fancy
PANSIES,
are without question the most popular strains in cultivation up to date.

New Seed ready now, in trade packages of either strain, at one dollar each.
PLANTS FOR SALE
Denys Zirngiebel,
NEEDHAM, MASS.

PANSY SEED. PANSY
The Jennings strain of large flowering and Fancy Pansies, new crop now ready. 8 pounds of seed and over 500,000 plants were sold last season. This strain is popular, and why? Because Florists can depend on getting only First Class Stock. I shall sell no other. My aim is to supply the best Finest Mixed, all colors, trade pkt. 300 seeds 25c.; 1000 seeds 50c.; 2000 seeds $1.00; per ounce $6.00. Pure White (the finest) trade pkt 50c. and $1.00; Golden Yellow, dark eye, trade pkt. 50c. and $1.00. Send for price list for other varieties. Pansy Plants, ready September 1 to December 25, any size wanted, cold frame size 65c. per 100 by mail; $5.00 per 1000 by express; 5,000 $20. Large flowering plants $1.00 per 100; $8.00 per 1000. Cash with order.
ADDRESS E. B. JENNINGS,
WHOLESALE PANSY GROWER,
Lock box 254 SOUTHPORT, CONN.
When writing mention the AMERICAN FLORIST.

ROEMER'S SUPERB PRIZE PANSIES
The finest strain of Pansies in the World.
Introducer and Grower of all the leading Novelties.
Catalogue free on application.
FRED. ROEMER, SEED GROWER,
QUEDLINBURG, GERMANY.

PANSIES.
During the season we shall have plants of best German strain of Pansies, at lowest prices.
BRAUER & RICHTER,
McCONNELSVILLE, OHIO.

EXTRA PANSY SEED.
Mammoth Sunbeam Strain.
A grand collection of giant flowering varieties, very large, of perfect form, and choice colors; carefully selected; receive high praise from my customers; better than ever; no finer strain offered anywhere. Every florist should sow of it. Trade pkt., 500 seeds, 25 cts.; 3 pkts. 60 cts.; 6 pkts. $1.00.
JOHN F. RUPP, Shiremanstown, Pa.

SMILAX AND ASPARAGUS
TRAINED ON GREEN
SILKALINE
Are in the best possible condition for the market.
For particulars address
JOHN C. MEYER & CO.,
289 DEVONSHIRE ST., BOSTON, MASS.

HEADQUARTERS for WATER LILIES
SEEDS, TUBERS AND PLANTS, ready for shipment at all seasons and to all parts of the world. Don't fail to inspect our Columbian Exhibit at the World's Fair.
Illustrated Catalogue on application.
WM. TRICKER, DONGAN HILLS NEW YORK.

A FIRST-CLASS Certificate of Merit

—TO—

H. BAYERSDORFER & CO.

—FOR—

The Best Exhibit of

FLORISTS' SUPPLIES.

The only Certificate of Merit awarded for Florists' Supplies at the S. A. F. Convention at St. Louis.

We offer you the same quality of goods as comprised the above exhibit.

First-Class in Quality.
Reasonable in Price.

H. Bayersdorfer & Co.,

56 N. 4th St.,

PHILADELPHIA, PA.

Wholesale Only. Calaloques Ready.

MARSCHUETZ & CO.,

Florists' Supplies,

23 & 25 N. 4th St., PHILADELPHIA, PA.

Send for Catalogue.

ERNST KAUFMANN & CO.,

Florists' Supplies,

113 NORTH 4TH STREET,

PHILADELPHIA, PA.



Kills Mildew and Fungus Growth. What does?

GRAPE DUST.

Sold by Seedsmen.

Send orders for . . .

CLEAR CYPRESS

Greenhouse Material

from bottom of gutter up.
Correspondence solicited. Estimates cheerfully furnished.

LYMAN FELHEIM, ERIE, PA.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

250,000 FINE FERNS.

Our stock of young Ferns is greater this season than ever. The plants are just in proper condition to shift on into 3-inch pots for use in jardinieres and fern dishes during the fall and winter.

During the past five years there has always been a great scarcity of this stock from the holiday season on, and this year will be no exception. You cannot go amiss by laying in a stock now and growing them on.

As our stock is nearly all grown in open frames, it is in a well-hardened off condition and will stand shipment by freight, except to very distant points, thereby saving heavy express charges.

ADIANTUM ANEITENSE,
" CUNEATUM,
" BELLUM,
" GRACILLIMUM,
" DECORUM,
" ELEGANS,
" PULVERULENTUM,
DAVALLIA STRICTA,
DICKSONIA ANTARCTICA,
DIDYMOCHLAENA TRUNCATULA,
GYMNOGRAMME SCHIZOPHYLLA,
HEMIONITIS PALMATA,
LASTREA ARISTATA VARIEGATA,
LASTREA OPACA,
NEPHRODIUM EMERSUM CRISTATUM,
" HIRTIPES,
NEPHROLEPIS EXALTATA,
ONYCHIUM JAPONICUM,
POLYSTICHUM COREACEUM,
PTERIS SERRULATA CRISTATA,
" " NANA,

$6.00 per 100; $50.00 per 1000.

ADIANTUM CONCINUM,
" CONCINUM LATUM,
" PUBESCENS,
CYRTOMIUM FALCATUM,
LOMARIA CILIATA,
PTERIS ADIANTOIDES,
" ARGYREA,
PTERIS CRETICA,
" CRETICA ALBO LINEATA,
" CRETICA MAGNIFICA,
" LEPTOPHYLLA,
" PALMATA,
" SERRULATA,
" SIEBOLDII,
" TREMULA.

$5.00 per 100; $40.00 per 1000.

ADIANTUM LATHAMII,
ACTINIOPTERIS RADIATA,
ADIANTUM RHODOPHYLLUM,
ALSOPHILA AUSTRALIS.

$1.00 per dozen; $8.00 per 100.

ADIANTUM FARLEYENSE. As fine a lot of plants as it is possible to produce, in 5-inch pots; vigorous, clean, healthy, well grown stock, at $1 00 each.

Our new **Quarterly Trade List** will be issued early in September, and offers a full line of all leading Florists' stock suitable for the fall trade, such as Araucarias, Azaleas, Cycas, Pandanus, Ficus and Palms. Our stock of these specialties is greater than ever before. The plants are well grown and certain to give satisfaction.

HENRY A. DREER,

Philadelphia, Pa.

HOW TO GROW CUT FLOWERS.

A PRACTICAL TREATISE ON

THE CULTIVATION OF THE ROSE,

And Other Flowering Plants for **Cut Flowers**, sent to any address upon receipt of $2.00.

M. A. HUNT, Terre Haute, Ind.

STANDARD FLOWER POTS.

OLD RELIABLE MAKE OF

ELVERSON, SHERWOOD & BARKER.

Write for Catalogue and Price List.

PITTSBURGH CLAY MFG. CO. New Brighton, Pa.

STANDARD FLOWER POTS

Our new **Pottery**, new **Machinery**, the very **best Clay** in the **Country**, and our new **Patent Kilns**, all combined, make the **best Standard Pot in the market.** Send for price list.

PARMENTER MF'G COMPANY,

GEORGE MESSINGER, Manager. **East Brookfield, Mass.**

SEND FOR A COPY

—OF OUR—

TRADE DIRECTORY

AMERICAN FLORIST CO., CHICAGO

VICTOR SPRAY PUMP.

The most wonderful pump ever invented. Requires no foot-rest or support. Send for prices.

HENION & HUBBELL, 55 N. Clinton St., Chicago, Ill.

Always mention the American Florist when writing to advertisers.

Toronto.

The Gardeners' and Florists' Association held its regular monthly meeting last week, and managed to clear off the business on hand in about an hour. The Chrysanthemum Committee was ordered to get out the final prize list before the next meeting. Mr. A. Gilchrist, the worthy vice president, who has just returned from Chicago, presided. Of course the boys wanted to hear about the World's Fair, and Mr. Gilchrist gave them as much as could be crowded into a conversational speech of fifteen or twenty minutes, and told them that all who could possibly make it convenient should go and see it for themselves, as no description could give them any idea of the reality.

I am sorry to have to say that not one Torontonian attended the convention at St. Louis this year. All have excuses, distance too great, trade bad this year, built a house, married a wife, an ox to prove, etc.

Flower beds are now at the height of their beauty. Soon the cool nights will come and take the gloss off the coleus, and the wind and rain will beat the bloom and make it tired looking. There are some quite noteworthy sub-tropical beds about this year, in which the plants have done remarkably well. E.

BROOKLYN, N. Y.—There will be erected during the fall, on the Ninth avenue side of Prospect Park, near Eighth street, a building to be known as the "Display House," in which flowers and plants from the greenhouses will be attractively arranged for a continuous floral show. The structure will be plain, with dimensions of 83 feet by 35 feet and about 35 feet high. The object of the building is mainly to provide a flower display for winter.

EVANS' IMPROVED
CHALLENGE VENTILATING APPARATUS
Write for Illustrated Catalogue.
QUAKER CITY MACHINE WORKS, Richmond, Ind.

FLORISTS' HOSE,
Made by E. W. Holt, member of the Society of American Florists.
Goodyear Rubber Store,
2 W. 14TH ST. NEW YORK.

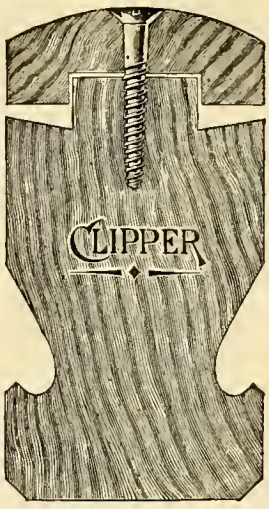
STANDARD FLOWER POTS.
Price List.

2 -inch,	Per 1000 $3.25	7-inch,	Per 100 $ 3.50
2½-inch,	" 3.50	8-inch,	" 5.00
2½-inch,	" 4.00	9-inch,	" 7.50
3 -inch,	" 5.00	10-inch,	" 10.00
3½-inch,	" 7.25	11-inch,	" 15.00
4 -inch,	" 9.00	12-inch,	" 20.00
5 -inch,	" 13.80	14-inch,	" 40.00
6 -inch,	" 22.00	16-inch,	" 75.00

Terms cash, f. o. b. Address
HILFINGER BROS. POTTERY, Fort Edward, N. Y.

IMPROVED GLAZING.
Zinc Joints for butting glass without laps. No leakage. No sliding of glass. Practically air tight. Keeps out cold winds, thereby saving fuel. No laps, saves enough glass to pay for the zincs. No breakage of glass on account of frost or ice. Some of the largest growers in the country are using "Gasser's Patent Zinc Joints" with entire satisfaction. Write for sample and price list.
J. M. GASSER, FLORIST,
101 Euclid Ave.. CLEVELAND, O.

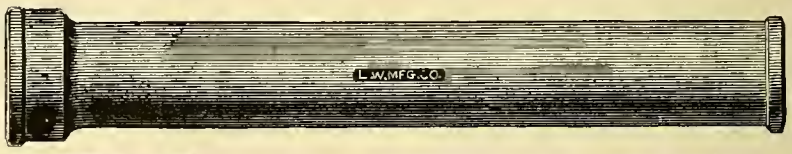
D. H. ROBERTS,
159 & 161 South Fifth Ave., New York.
NATURAL GAS MADE GLASS,
for Rose Houses, Conservatories, etc., etc.
Look at our World's Fair Exhibit in Horticultural Building.

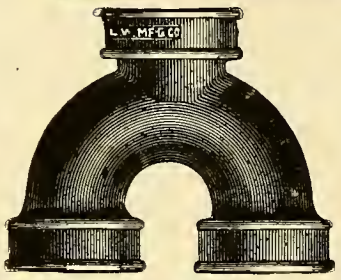


Mention American Florist.

THE "LOCKLAND"
Sash Bars
ARE ALWAYS SATISFACTORY.
This cut represents our improved Clipper Bar for Butted Glass roof—putty to be used under glass only.
GUTTER MATERIAL, RIDGES, SASH, ETC.
The finest CLEAR CYPRESS used.
Write for circulars and estimates. . . .
LOCKLAND LUMBER CO.
. Lockland, O.

Greenhouse Pipe and Fittings





Large quantities of our Pipe are in use in Greenhouses throughout the West, to any of which we refer as to its excellent quality.
Pipe can be easily put together by any one, very little instruction being needed.
GET THE BEST!
Hot-Water Heating, in its Economy and Superiority, will repay in a few seasons its cost.
Mention American Florist.
L. WOLFF MFG. CO., 93 to 117 W. Lake Street, CHICAGO.
WRITE FOR ILLUSTRATED CIRCULAR.

"Standard" Flower Pots.
As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address
The Whilldin Pottery Company,
BRANCH WAREHOUSES: 713, 715, 717 & 719 Wharton St., Philadelphia, Pa.
Randolph Ave. and Union St., Jersey City, N. J.
Jackson Ave. and Pearson St., Long Island City, L. I.

STANDARD FLOWER POTS
Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.
A. H. HEWS & CO., N. Cambridge, Mass.

Standard Flower Pots.
We wish to notify the trade that this summer we have made great improvements in machinery and have also discovered a better clay, so that we are now manufacturing FLOWER POTS that can't be beat. We have the assurance of a host of our customers, that our make are the best in the market. Bear in mind that freight rates are very low from this point, and we claim that our way of packing saves you freight charges. Send for circulars, or we will send you figures on any quantity you want.
SIPFLE, DOPFFEL & CO., SYRACUSE, N. Y.

Always mention the American Florist when writing to advertisers.

WHEN writing our advertisers please use one of your printed business letter heads or enclose your business card.

TO TAKE PLACE OF WIND MILLS

HOT AIR PUMPING ENGINES

A Windmill

Is unreliable because it depends upon the elements for its power; hydraulic rams also depend upon favorable conditions and waste as much water as they secure. Steam pumps require skill and hand pumps demand labor and time. The

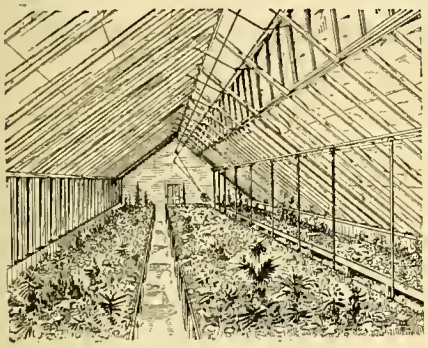
DE LAMATER-RIDER OR DE LAMATER-ERICSSON Hot-Air Pumping Engines

are especially designed for pumping water, and from shallow streams or any kind of well. They are simple, safe and reliable, require no steam and have no valves. They require very little heat to operate them, and can be arranged for any kind of fuel.

Send for illustrated catalogue to

THE DE LAMATER IRON WORKS,
87 South Fifth Av.,
NEW YORK, N. Y.

THE CHAMPION



Automatic Ventilator.

The cheapest, easiest to operate, and by far the best machine in the market. Don't buy a Ventilator until you have seen my illustrated descriptive circular, which will be sent you free, giving prices, etc. Also **Champion Soil Pulverizer and Sifter.**

Address, **E. E. WOLF,**
Box 114. SPRINGFIELD, O.

CUTS!



Wood Engraving,
Zinc Etching,
Half-Tone,
Wax Engraving, Photo-Engraving,
Designing.

MANZ & CO.,
183 Monroe Street, CHICAGO. **ENGRAVERS.**

Mention American Florist.

JULES DE COCK'S NURSERIES

GHENT, BELGIUM.

OFFER TO THE TRADE OF GOOD PLANTS.

10,000 Araucaria Excelsa; 100,000 Begonia Bulbs.
30,000 Azalea Indica; 20,000 Azalea Mollis.
100,000 Palms, different sorts, all sizes.
10,000 Laurel Bays, Standards and Pyramids.

THE PERFECT DRAINAGE

BENCH TILE

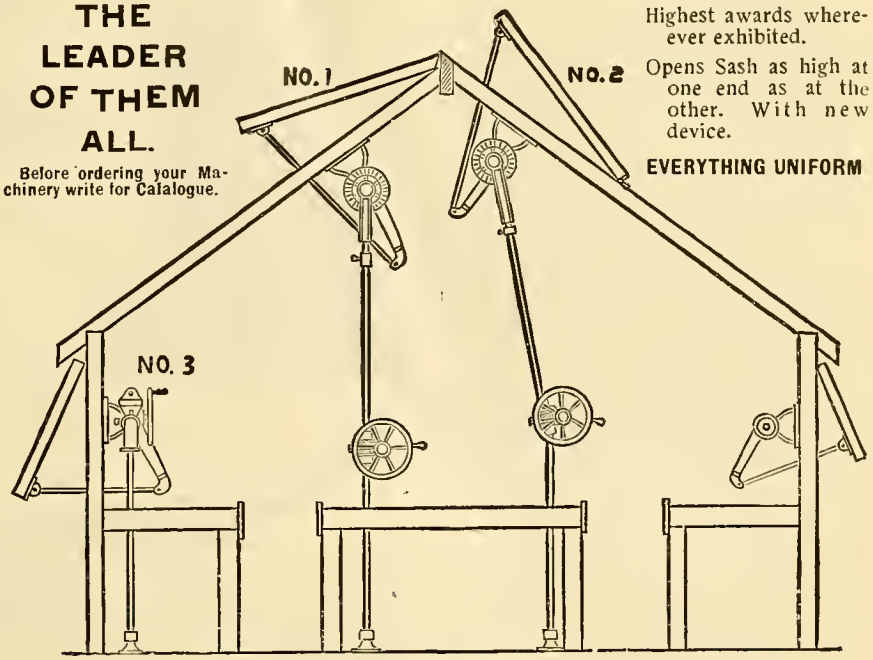
For circulars, etc., address

W. P. Wight, Upland Green Houses,
Send your business card. MADISON, N. J.

STANDARD VENTILATING MACHINERY,

THE LEADER OF THEM ALL.

Before ordering your Machinery write for Catalogue.

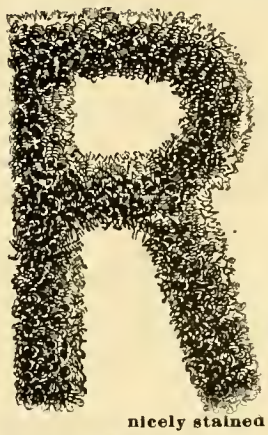


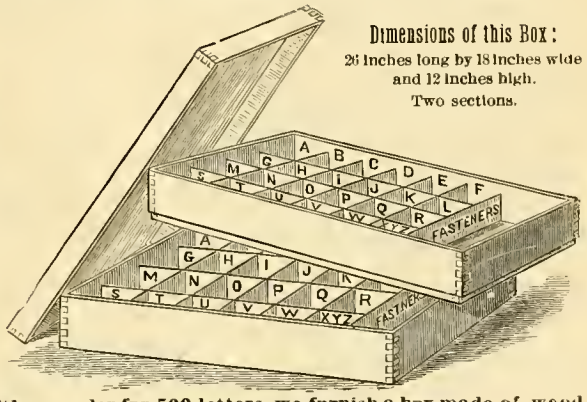
Highest awards wherever exhibited.

Opens Sash as high at one end as at the other. With new device.

EVERYTHING UNIFORM

E. HIPPARD, YOUNGSTOWN, OHIO.





Dimensions of this Box:
26 inches long by 18 inches wide and 12 inches high.
Two sections.

With an order for 500 letters, we furnish a box made of wood nicely stained and varnished, such as is represented in the cut.

BOSTON FLORIST LETTER CO.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1½-in. and 2-in. 2.00 per 100. Patent fastener with each letter.

OUR NEW SCRIPT LETTER, $4.00 per 100.

N. F. McCARTHY, Treas. & Mangr. | Address 13 Green St., **Boston, Mass.**

Address all correspondence to 1 Music Hall Place.

We have a new **FASTENER** which we consider a decided success. Any customers having old style fasteners which they wish to exchange, can do so without additional cost by writing us.

AGENTS.

Marschuetz & Co., 25 N. 4th St., Phila.
A. Roiker & Sons, New York.
F. E. McAllister, 22 Dey St., New York.
A. D. Perry & Co., 33 Warren St., Syracuse, New York.
Ernst Kaufmann & Co., 113 N. 4th St., Phila.
H. Bayersdorfer & Co., Philadelphia, Pa.
A. C. Kendal, 115 Ontario St., Cleveland, O.
J. A. Simmers, Toronto, Ont. Agent for Canada.
E. H. Hunt, 79 Lake St., Chicago, Ill.
Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.
H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.
T. W. Wood & Sons, 6th and Marshall Sts. Richmond, Va.
Jas. Vick's Sons, Rochester, N. Y.
C. A. Kuehn, 1122 Pine St., St. Louis, Mo.
D. B. Long, Buffalo, New York.
C. F. Huntington & Co., Indianapolis, Ind.

These Letters are handled by all the Wholesalers in Boston.

J. N. STRUCK & BRO.

Manufacturers of

• CYPRESS •

Greenhouse Material,

LOUISVILLE, KY.

Mention American Florist.

STANDARD HOSE MENDER.



The only Mender using ordinary galvanized wire No. 14, instead of expensive bands. Any person can handle it with perfect ease. Thousands in use and all testify to its Wonderful Merits.

Sample Box, by Mail, 50 cts.

E. HIPPARD, Youngstown, Ohio.

When writing to any of the advertisers on this page please mention the American Florist.

Chicago.

Trade is very dull and flowers generally medium in quality, though roses are improving. Carnations are very poor. Gladiolus is suffering from the dry weather, so are tuberoses, which are quite plentiful, but not very good in quality. Asters are far ahead of the demand. The supply of auratum lilies is lessening. Sweet peas are almost gone. The dry weather is affecting all outdoor stuff very much; the carnations seem likely to suffer a good deal.

A recent corporation is the Brant & Noe Floral Co., of Chicago. Capital stock, $40,000; incorporators, D. W. Brant, Louis Danziger and Walter Hannon.

Among the recent visitors were: James Morton, Clarksville, Tenn.; H. C. Quillin, Dallas, Texas; Stephen Taplin and Orrin Scotten, Detroit, Mich.; W. F. Gude, Washington; Frank Bucksaht, Jr., St. Louis; Jno. E. Lager, Short Hills, N. J.; J. T. Temple, Davenport, Iowa; Gus Knoch, Detroit, Mich.; J. Comont, London, England; T. G. Armstrong, Milwaukee, Wis.; E. F. Lemke, St. Paul, Minn.; L. E. Bayles, Wilmington, Del.; I. Larkin, Toughkenamon, Pa.; S. A. Anderson, Buffalo, N. Y.; J. J. Lampert, Xenia, Ohio; W. Greene, Davenport, Iowa; Wm. Dihm, New York City; Theo. Bock, Hamilton, Ohio.

California Nurserymen's Association.

At a meeting of California nurserymen, held at San Francisco August 14, an association was formed with the above title, with officers as follows: G. C. Roeding, president; Leonard Coates, vice-president; R. D. Fox, San Jose, secretary; John Rock, treasurer. Executive Committee: W. P. Harmon, J. Waters, A. F. Boardman, John Rock, C. C. Royce.

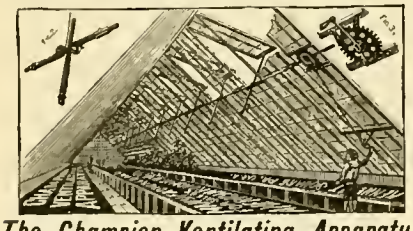
At the meeting a resolution was adopted indorsing the action of the California State Horticultural Society in inviting the American Pomological Society to hold its next meeting in San Francisco.

ALTOONA, PA.—Fair & Dane are building a new house 20x100.

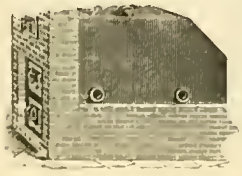
CORRY, PA.—I. G. Seltzer has leased the Rhodes greenhouses for a term of years.

TROY, N. Y.—An unsuccessful attempt to burglarize the safe of Louis Menand at Menands was made recently. The safe was badly broken, but was not opened.

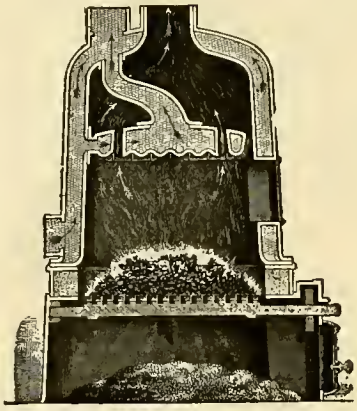
SUCCESSFUL GROWERS
USE THE BEST VENTILATING APPLIANCES.



The Champion Ventilating Apparatus
cannot be equaled in point of
CHEAPNESS, DURABILITY OR EFFICIENCY.
☞Circular is yours for the asking. Address
AMERICAN ROAD MACHINE CO.,
. . . . Kennett Square, Pa.



GREEN-HOUSE HEATING,
MYERS & CO.
1518 & 1520 S. 9th St.,
PHILADELPHIA.
Send for catalogue and price list.



JOHN A. SCOLLAY,
74 & 76 MYRTLE AVE.,
BROOKLYN, N. Y.
GREENHOUSE HEATING
— AND —
Ventilating Apparatus.
Patentee and Manufacturer of
HOT WATER BOILERS,
GREENHOUSE PIPE,
PIPE FITTINGS,
VALVES, TANKS, ETC.
☞ Estimates of cost given, and Illustrated Catalogue furnished on application.



"God helps those who help themselves." And he who uses THE "NEW DEPARTURE"
(MEAT SAW)
VENTILATING APPLIANCE
helps himself and those who help him in his labors, and is therefore doubly blessed. Send for price and description.
J. D. CARMODY, Evansville, Ind.
Or call and see the man and machine at his greenhouse office, located on the lawn west front of Horticultural Building, World's Fair grounds, Chicago, Ill.

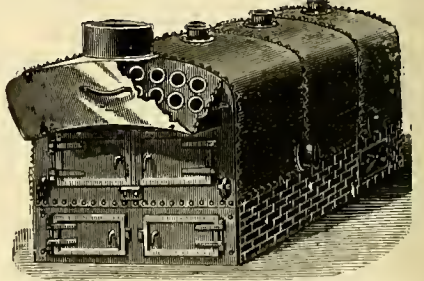
H. M. HOOKER COMPANY,
57 and 59 W. Randolph Street, CHICAGO,
NATURAL GAS MADE GLASS
FOR GREENHOUSES.
Write for latest prices.

FRENCH GLASS For CONSERVATORIES, ROSE HOUSES, Etc. Etc.
VANHORNE, GRIFFEN & CO.,
Importers of PLATE and WINDOW GLASS. Manufacturers of BENT GLASS and FRENCH MIRRORS.
131-133-135-137 FRANKLIN STREET, NEW YORK.
Note—Imported Glass is used in the best grade of Greenhouse building.

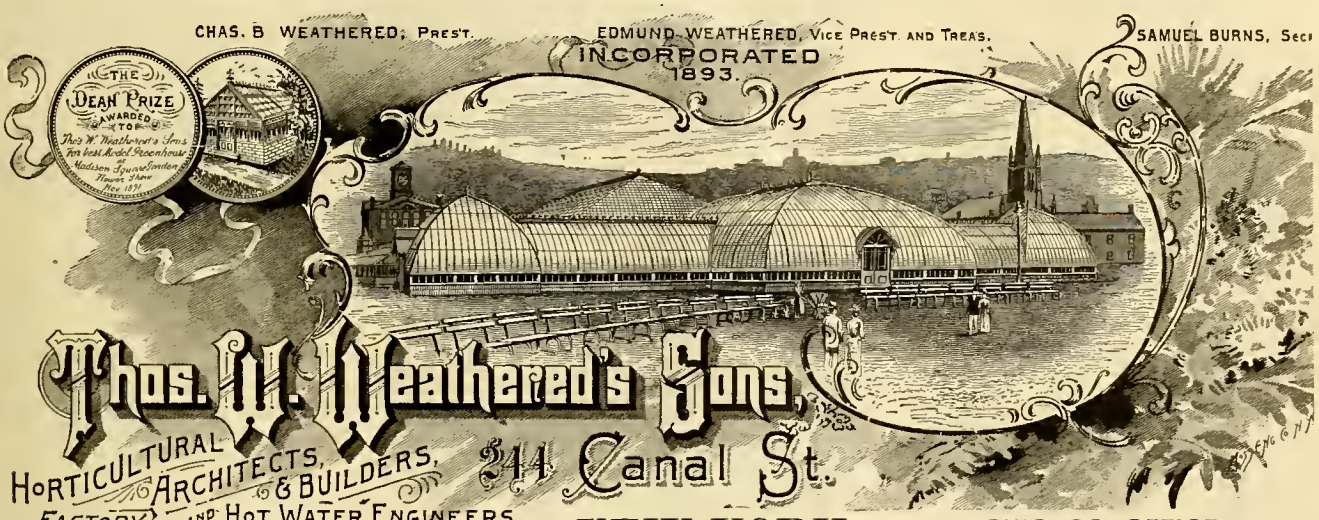
GLASS
which is absolutely perfect for modern greenhouse construction.
ROCK BOTTOM PRICES.
Send for Estimate. Satisfaction Guaranteed
REED GLASS CO.
65 WARREN STREET and
46, 48, & 50 COLLEGE PLACE,
—NEW YORK CITY.—

THE GREAT ANTIPEST.
For particulars, see next week.
R. W. CARMAN, GEN'L AGT.,
291 Amity Street, FLUSHING, Queens Co., N. Y.

KROESCHELL BROS.
IMPROVED
Greenhouse & Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around front, sides and back). Write for information.



Thos. W. Weathered's Sons,

HORTICULTURAL ARCHITECTS, & BUILDERS, AND HOT WATER ENGINEERS.

FACTORY, 196 to 240 Orient Ave. Jersey City. N.J.

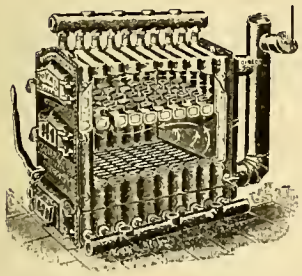
244 Canal St. NEW YORK.

CHICAGO OFFICE: 619-620 Manhattan Bldg.

ROYAL HEATERS

TRADE MARK

UTICA, N.Y.



HART & CROUSE,

UTICA, N. Y.

FLORAL DESIGNS

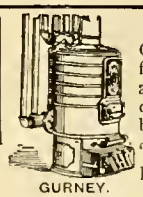
The Cut Flower Worker's Friend. Fine book of 160 pages. Send **$3.50** for it, to

J. HORACE McFARLAND, Harrisburg, Pa.

Always mention the AMERICAN FLORIST when writing to advertisers.

Gurney

HOT WATER HEATERS AND RADIATORS FOR HEATING Dwellings, Public Buildings, Etc. BY HOT WATER CIRCULATION.



GURNEY.

The marked superiority of the Gurney Heaters which is manifested in all severe trials, is now a matter of history. There is no question about their being the best. For reasons, see our book "*How Best to Heat Our Homes.*" It is free.

Gurney Hot Water Heater Co.

HEAD OFFICE: 163 Franklin St., Boston, Mass.

BRANCH OFFICE: 59 Wabash Ave., Chicago, Ill.

SELLING AGENCIES: Johnson & Co., 71 John St., New York. J. C. F. Trachsel, 246 Arch St., Philadelphia.



DOUBLE CROWN.

ESTABLISHED 1866.

FLORISTS WIRE DESIGNS

MANUFACTURED BY

N. STEFFENS

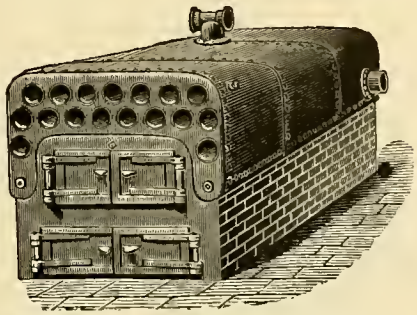
335 EAST 21ST ST. NEW YORK.

ESTABLISHED 1854.

DEVINE'S BOILER WORKS.

THE FLAT TOP TYPE

Wrought Iron Hot Water Boilers



Capacity from 350 to 10,000 feet of four-inch pipe. SEND FOR NEW LIST.

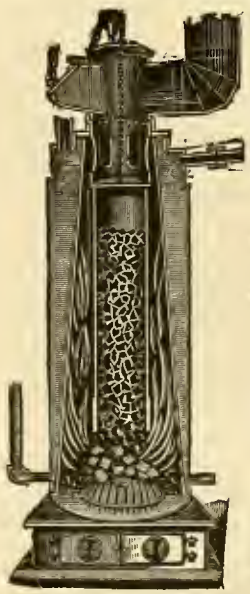
FRANK DAN BLISH, Att'y,

OFFICE, 189 STATE STREET.

WORKS, 56th & WALLACE STREETS.

CHICAGO.

Mention American Florist.



THE WILKS HEATER,

FOR HEATING GREENHOUSES, STORES, DWELLINGS, ETC.

Manufactured by *THE S. WILKS MF'G CO.* 123 S. Clinton St., CHICAGO, ILL.

SEND FOR CATALOGUE.

MAIL LOCK THE DOOR BEFORE THE HORSE IS STOLEN. DO IT NOW.

JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

Index to Advertisers.

Abel C C & Co.....74
Adv. Rates, etc 68
American Boiler Co ..80
American Road Mach Co.....78
Baller F A.....72
Barnard W W & Co.....71
Bay State Hdw Co.....72
Bayersdorfer H & Co ..75
Benard G 72
Berger H H & Co.....71
Bock Wm A.....72
Bonsall Jos E & Son ...69
Boston Letter Co ...77
Brackenridge & Co.....74
Brauer & Richter.....74
Brown & Canfield.. 73
Burns & Raynor.....69
Burrow J G.....71
Burton John.....73
Carman R W.....78
Carmody J D.....78
Chandlee Geo H 71
Colea W W 73
Corbrey T J 69
Cox Seed & Plant Co....71
Deamud J B & Co.....68
De Cock Jules.....77
De Lamater Iron Wks..77
De Mulder Th D.....73
De Smet Louis.....74
Devine's Boiler Wks...79
Dillon J L.....73
Dreer H A.....71 75
Elliott W H.....68
Ellison Wm.....69
Felheim Lyman.....75
Fisher David.....72
Forstermann L 74
Foster P H.....72
Gasser J M 76
Gonzalez & Co.....71
Goodyear Rubber Store 76
Gurney Heater Co.....73
Hall Ass'n.....79
Hammond Benj.....75
Hancock Geo 72
Hart James.....69
Hart Michael A.....69
Hart & Crouse.....79
Hartford H E.....68
Helte Floral Co.....71
Henion & Hubbell.....75
Herendeen Mfg Co.....80
Herr Albert M.....74
Hews A H & Co 76
Hillinger Bros.....76
Hill E G & Co.....72
Hippard E 77
Hitchings & Co 80
Hooker H M Co. 78
Horan Edw C. 69
Hulsebosch Bros 71
Hunt E H.....69
Hunt M A.....73 75
Hunter & Purdy.....69
Jennings E B.....74
Joosten C H.....71
Kaufmann Ernst & Co..75
Kemble Floral Co 73
Kennicott Bros.....69
Knapp O R.....71
Koch Ludwig.....71
Koffman E 68
Kroeschell Bros 78
Kuehn C A.....69
Kuyk K J 73
La Roche & Stahl.....68
Lau Paul F & Co.....72
Lehnig & Winnefeld....71
Lockland Lumber Co....76
Lombard R T.....72
Long Dan'l B.....69
Lonsdale Edwin.....70
Lord & Burnham Co....80
McCarthy N F & Co.....69
McCrea & Cole 72
McFarland J H.....72
McFarland J H Co.....68
MacBean A S.....73
Manz J & Co.....77
Marschuetz & Co.....75
Martens I.....71
Meyer John C & Co. ...74
Michel Plant & Bulb Co 71
Millang Bros 69
Miller Geo W.....73
Moffatt G J.....71
Moninger Jno C 80
Myers & Co.....78
Niles Centre Floral Co..69
Olson M 69
Ouwerkerk P.....73
Parmenter Mfg Co.....75
Peck & Sutherland.....69
Pennock C J.....72
Pennock Sam'l S 68
Pierson A N.....73
Pierson F R Co.....71
Pittsburg Clay Mfg Co..75
Prince A G & Co 69
Quaker City Mach Co...76
Randall A L.....69
Raoux C.....72
Rauss Chas.....73
Reck John 73
Reed Glass Co.....78
Roberts D H.....76
Roehrs T. eo.....69
Roemer Fred.....74
Rolker A & Sons.....71 72
Rupp John F.....74
Rupp H S & Sons.....72
Russell S J.....72
Sander & Co 74
Scollay John A. 78
Sheridan W F.....69
Shelmire W R.....72
Sherwood Hall Nur Co..71
Siebrecht & Wadley.....74
Siptle, Doppfel & Co.....76
Situations, wanta.....70
Smith Henry.....73
Smith Nathan & Son....73
Steffens N 79
Stott Garden Imp Co....74
Struck J N & Bro.....77
Sunderbruch H L.....69
Tailby W W 68
Tracht J A & Son 72
Tricker Wm.....74
Van Coppenolle Ed.....74
Van Horne Griffen & Co 78
Vaughan J C.....70
Weathered's Sons T W..79
Weaver Elmer J.....71
Weeber & Don.....71
Welch Bros.....69
Whildin Pot Co 76
Wight W P.....77
Wilks S Mfg Co.....79
Winter N D 70
Wisconsin Flower Ex...71
Wolf E E 77
Wolff L Mfg Co.....76
Wood Bros.....73
Zirnglebel D.....74

Do YOU WANT a list of the leading park superintendents of America? You will find such a list in our trade directory and reference book.

Please mention the AMERICAN FLORIST every time you write to an advertiser.

GoodellHH 15 Dec 93
Mass Agri Col

CYPRESS GREEN HOUSE MATERIAL

CLEAR CYPRESS SASH BARS

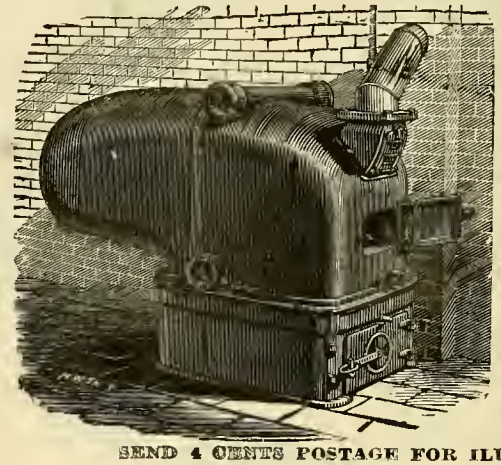
T BED AND VENTILATING SASH

JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

Mention American Florist.

GREENHOUSE HEATING AND VENTILATING

Horticultural Architecture and Building.



HITCHINGS & CO.

Established 1844.

233 Mercer St., New York.

FIVE PATTERNS OF BOILERS.
NINTEEN SIZES.

Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc, of Iron Frame Construction, Erected complete, or the Structural Iron Work shipped ready for erection.

Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Top.

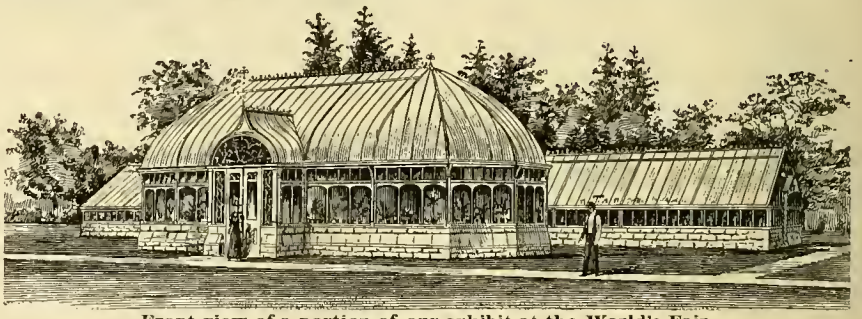
SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.

LORD & BURNHAM CO.

Horticultural Architects and Builders,

STEAM AND HOT WATER HEATING ENGINEERS.

☞ Plans and estimates furnished on application.



Front view of a portion of our exhibit at the World's Fair.

. . . SEND FOUR CENTS POSTAGE FOR ILLUSTRATED CATALOGUE. . . .

LORD & BURNHAM CO., Irvington-on-Hudson, N. Y.

STEAM · AND · HOT · WATER · HEATERS

FOR

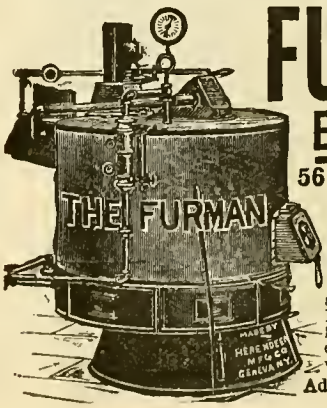
GREENHOUSE HEATING

156

DIFFERENT SIZES.

American Boiler Company.

BOSTON,	NEW YORK,	CHICAGO,	DENVER,	SAN FRANCISCO.
195 Ft. Hill Square.	94 Center St.	34-36 Dearborn St.	Mining Exchange Bldg.	80 Crocker Bldg.



FURMAN BOILERS

Economical — Substantial — Safe.

56 STYLES AND SIZES—BURNS HARD OR SOFT COAL.

Modern Hot-Water Heating

These Boilers have a high reputation for Staunchness, Durability and Safety, and are GREAT COAL SAVERS. Minimum Friction and Maximum Velocity only obtained by VERTICAL WATER CIRCULATION. Send for new 150-page book giving full particulars and a great deal of valuable information on modern Heating and Ventilation, with plans and tables for correct hot-water work. Mailed free.

Address HERENDEEN MFG. CO., 26 Vine Street, GENEVA, N. Y.

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. IX. CHICAGO AND NEW YORK, AUGUST 31, 1893. No. 274

THE AMERICAN FLORIST

Copyright 1893, by American Florist Company. Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.
322 Dearborn Street, Chicago.

Subscription, $1.00 a year. To Europe, $2.00.

Address all communications to

AMERICAN FLORIST COMPANY,
P. O. Drawer 164, CHICAGO.
Eastern Office: 67 Bromfield St., Boston.

SOCIETY OF AMERICAN FLORIST.

WM. R. SMITH Washington, D. C., president; PROF. WM. TRELEASE, St. Louis Mo., vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass, secretary; M. A. HUNT, Terre Haute, Ind., treasurer.

The new officers, to be installed Jan. 1, 1894, are: J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; secretary and treasurer the same as for 1893. The next annual meeting will be held at Atlantic City, N. J., August, 1894.

CONTENTS.

Hybridization: Its benefits and results. . . . 81
Part of N. Y. display at World's Fair (illus). . . 83
The World's Fair 84
Carnations—Seasonable hints 84
Grub worms. 84
Lagerstromia Indica alba (illus). 85
Philadelphia 85
Chicago 86
Buffalo 86
New York 87
The Chrysanthemum Society of America . . . 88
A correction 88
Boston 90
St. Louis 90
The seed trade 92
The Florists' Protective Association. 94
Rochester, N. Y. 96
Those dear children 98

Catalogues Received.

Vilmorin-Andrieux & Co., Paris, France, bulbs and seeds; H. Gusmus, Klagenfurt, Austria, bulbs and plants; P. J. Berckmans, Augusta, Ga., trees and plants; Osman & Co., London, England, garden tools, etc.; Chas. D. Ball, Holmesburg, Phila., Pa., palms, ferns, etc.; Emil Liebig, Dresden, Germany, plants; W. Pfitzer, Stuttgart, Germany, plants.

Patents Recently Granted.

Bouquet holder, Joseph Mathison, Somerville, Mass,; Artificial stem for cut flowers, Harry H. Francis, Madison, N. J.; Holder for bouquets, Herman C. Wiedenmann, Philadelphia.

BULBS AND TUBEROUS ROOTED PLANTS is the title of a new book by C. L. Allen. Its subjects are indicated by its title; it covers all our popular bulbous and tuberous plants, their growth and culture, and will be found a useful reference work to both florists and amateurs. It contains 311 pages and is freely illustrated. (Published by the Orange Judd Co., New York.)

Hybridization: Its Benefits and Results to Ornamental Horticulture.

[*Presented at the St. Louis convention of the Society of American Florists by Dr. J. M. Macfarlane, Lansdowne, Pa.*]

It may fairly be said that three great agencies have been at work during the past century to increase the number of cultivated plants. These have been the introduction of new species, the selection of sports, and the hybridization of species already in cultivation. It would be hard to say which of the three agencies has been the most potent, but it is a fact that many of our choicest garden ornaments of to-day are neither species nor sports, but hybrids that have themselves been so crossed and recrossed that to unravel their parentage would be hopeless. As proof of this we need only cite the pinks, pelargoniums, begonias, heaths, rhododendrons, gloxinias, gladioli, etc. Such results are the best possible proof that hybridization has immense possibilities for the florist. The great improvement of many hybrids over either parent is a valuable feature in itself.

Though it is now approaching two centuries since Fairchild raised the first hybrid that was recognized as such, it is scarcely more than half a century since gardeners started in earnest to the work of hybridization. Kolreuter may well be designated the father of hybridizers, for from 1760 till near the time of his death in 1806 he devoted his best energies to the scientific rearing and comparison of parent and hybrid forms. The altogether unexpected results he obtained in crossing species of such genera as dianthus, malva, lobelia, nicotiana and mirabilis at once showed the way and supplied the stimulus to gardeners, who—to their praise be it said—were not blind to the hint thus furnished. But the gardening world was first aroused to the height of anticipation when a couple of well known cultivators entered the field in the persons of R. Gowen, gardener to Lord Carnarvon, and Dean Herbert, the amateur, but enthusiastic florist. As the two brought forward successive crosses of the then fashionable ericas, as well as of rhododendrons, gladioli and amaryllis that still find high favor, the natural outcome was that every gardener became a hybridizer. During the first half of this century, therefore, the number of garden hybrids increased greatly, while the price at times realized for some lucky batch of seedlings was a windfall to the owner.

More recently the careful, scientific experiments of Gartner, Naudin, Godron, Wichura and Darwin gave a firm foundation to the subject, while the innumerable varieties of pelargoniums, fuchsias, rhododendrons, petunias and orchids testify that the florist has not been resting on the laurels which his predecessors gained. But all this notwithstanding, he has too often approached his experiments in a very haphazard frame of mind. True, some of the leading continental firms so realized the importance of the work to be done that they engaged men for it who became specialists. Dominy, Seden, Kellermann, Turnbull, Grieve and others amply deserved the name. Like other industries and pursuits the rearing of hybrids is one the importance of which has not been fully realized in America. Till within the last few years there has not existed here the type of wealthy, leisured and cultured men, who can appreciate such products, and are prepared to spend large sums in order to obtain them. But while a change for the better is at present going on, is it not true that this country has at times fulfilled its mission best when it has gone outside itself to compete with other nations? Why should it not do the same in the production of new and valuable crosses? I am glad to know that already a beginning has been made and that hybrid orchids from American raisers have been willingly awarded their meed of praise.

System and method are characteristics of the universe and should be also of those who propose to enter the list of hybridizers. Want of system and method has sadly shown itself in the past, so that the market has been flooded with hybrids whose parentage is unknown, and the means adopted for the obtaining of them is unrecorded. Every gardener then should have a pocket notebook as a constant and cherished companion. I could not help admiring the system adopted by a well known orchid grower of England, whose stock of hybrids is almost without a rival. A large, well bound volume contained a record of every experiment conducted. The time of opening of the parent blossoms, the date when cross pollination was effected, remarks on the ripening of the capsule, the period when it was plucked, the time of sowing of the seeds and the nature of the soil in which they were placed, the first appearance of the seedlings and the date when these were pricked off into pots were all duly entered. By such means he commanded success and it has come to him. How unlike the all too common reply made by many, when asked only it may be as to the parentage of a cross, "Well, Golden Queen was the seed parent and I *think* Silver Gem was the male."

If it be asked now, What flowering plants will hybridize? the answer is difficult to give, for our sad lack of knowledge on many points must be confessed. It has been demonstrated that the pollen grains of one species when put on the stigma of some species belonging to a different order or even sub-class will protrude pollen tubes that may reach the ovary or even the ovule. But the operation seems to be largely physical and there stops. It can be laid down as an ascertained law that only forms which

are more or less related to each other will cross. But we do not mean to imply by this that in habit, environment, flower color and odor the two should resemble each other closely. Witness the hybrid between the slender, twiggy, small flowered Rhododendron Dauricum and the tall, large flowered R. arboreum, or between the dense, wiry Patagonian shrub, philesia, and the tall Chilian climber, lapageria. These indicate to us the outer limits of possibilities, so to speak, but the fact that hybrids of such never or rarely bear seed teaches us that natural limits have been overstepped by human art. Since hybrids between species of dianthus, pelargonium, begonia, petunia and others are to a large degree fertile this indicates that the inner limit shades off into cross fertilization of individuals of the same species.

A very important matter in hybridization is the skillful and judicious selection of appropriate parents. It seems inevitable that embryo hybridizers always attempt at first to get marvels, rather than improvements. They wish to lead nature, instead of being content to put their hand in hers. "Improvement" then should be the hybridizer's watchword, and we predict that this can best be attained by a thoughtful study of the parent species. Let us illustrate by one or two cases. The deservedly popular and early blooming Rhododendron Nobleanum is a cross of the low-growing, white flowered R. Caucasicum with the magnificent scarlet R. arboreum. But, as grown in English gardens, the leaves of the former parent are liable to the attack of an insect that riddles and browns them. The weakness is powerfully inherited by the hybrid offspring, and is decidedly against it in the florist's eyes. The selection of our native R. Catawbiense instead gave the well known strains of which John Waterer is an example, and these are free from the defect indicated.

No better illustration can be given, I think, of the inferior qualities of two selected parents being subordinated to the good points of both in the crossed offspring than in Nepenthes Mastersiana. This form has done more to popularize the pitcher plants than any species or hybrid yet brought forward. The one parent, N. sanguinea, has ample bright green leaves that bear scarlet crimson pitchers of graceful shape and large size. But the plant tends to become "leggy"; it pitchers rather inconstantly and is often difficult to propagate. The other parent, N. Khasiana, has narrow gray-green leaves, long narrow pitchers of a greenish hue tinged and streaked with brick red—not highly desirable acquisitions—but it pitchers at every leaf usually and is easy of cultivation. The hybrid, in habit, in leaf form and color, in shape and coloring of the pitcher, and not least, in its free mode of propagation, is all that could be desired.

Since it is a general rule that as we approach the tropics the wealth and coloring of flowers increase, one aim should be to cross good hardy forms with others of a more tender kind, for people do not want to grow all their plants the year round in glass houses if they can do otherwise. Then, too, since hybrids remain truest in type when propagated otherwise than from seeds, if one proposed parent that has good points be an annual or biennial, one that is perennial should be chosen as the other parent. Good illustrations of this are to be found both among natural and artificial hybrids. "Habit" is an important item with florists, and the improved crossed strains of begonia, canna, etc., are known to all of you. The quality of the flowers, however, largely determines the value of the plant. But "the quality of the flowers" is a complicated problem, since size, shape, color, perfume and duration may all have to be considered. A skillful study of these may insure a hit when otherwise there would be mediocrity or a failure. Few hybrids in their blooms set off the good points so well as one that has had a wide though questionable reputation, and yet is little known to cultivators. I refer to Bryanthus erectus of Graham; a well grown plant of this, not to say a bed of it, is a sight indeed. As color is an important consideration, needless effort may be saved by avoiding the crossing of species that have yellow and purple, or scarlet and dark blue blossoms. While I know a good many ugly combinations of the above, the only passable one is that between the cardinal and blue lobelias, which is not uncommon in the wild condition with us, and has repeatedly been produced artificially.

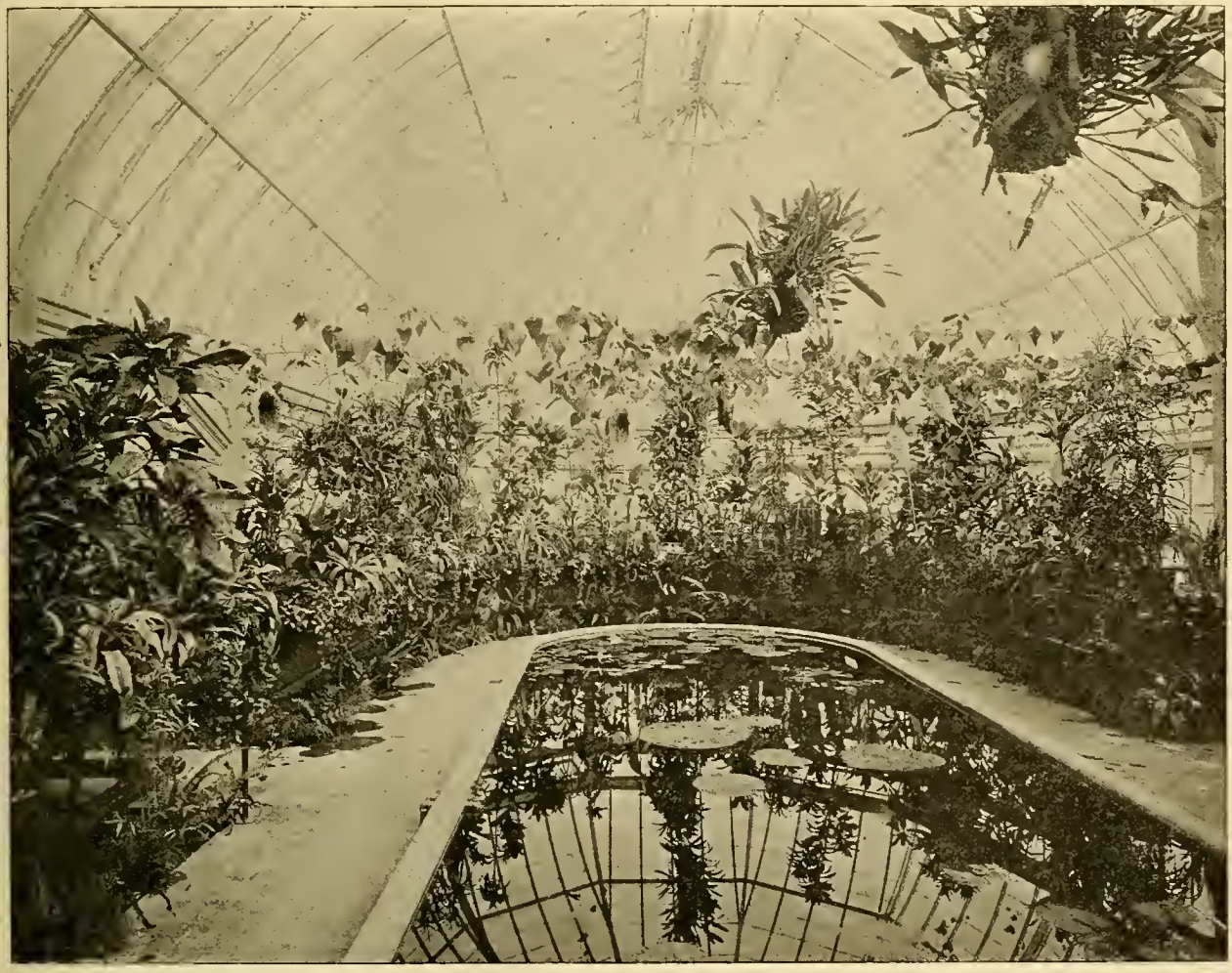
All experimenters practically agree that some genera and species cross much more readily than others. Where striking differences exist in the structure of the two parents the probability of blending is correspondingly reduced. In spite of this the man would be rash who would attempt to predict with our present knowledge that certain species cannot be crossed. Look up the literature of twenty years back and you will read that the currant and gooseberry, the red and blue pimpernel, as well as others that might be named, refuse to blend. Yet we have hybrids of them now. They yielded to steady and determined effort. The group of orchids, however, should be an example and encouragement to all. Till within the last quarter of a century few artificial hybrids, and only a few wild hybrids of the orchid order, were known, the order itself being viewed as of minor hybridizing capacity. But the rage for novelty and improvement taxed the skill of the gardener, while the prices willingly paid for good novelties furnished the incitement. He set himself to understand the curious structure of the flower and to his aid came Darwin's classic work. The order now stands first as having furnished the greatest number of hybrids, the most varied combinations and the most beautiful results. It cannot be too strongly stated, however, that these achievements have been accomplished by a skillful selection of parents and a knowledge of the cultural treatment that best suits them from the seedling on to the adult's age.

It has been generally accepted as an axiom that species with irregular flowers cross more readily than those with regular blossoms, and a superficial review of garden forms seems to confirm the opinion. But if we stand back and allow nature to speak for us here, she will utter a word of caution. Such genera as anemone, ranunculus, aquilegia, dianthus, hypericum, vitis, rosa, geum, rubus, epilobium, rumex, salix, narcissus and carex claim the large share of wild or natural hybrids. How then has the popular fancy originated? Simply, we believe, because irregular flowers always have a charm for cultivators that is only equalled by that of the finest regluar species. Nature, we say, works most easily on regular forms, and this fact should be kept clearly in view for the future. During the past quarter century irregular ones have been the favorites, the begonias only being to a degree an exception. We do not wonder that it has been so, for irregular shape and showy or varied coloring usually go hand in hand, while the halo of light that Darwin and his successors have shed round their structural relations makes everyone desire to imitate the insect or humming bird, even though they do not claim the nectar for their trouble. We say then that among our showy regular flowers is a neglected field waiting to be cultivated.

No question probably in the whole range of our subject has been so debated, or had so many theories tacked on to it, as that which deals with the relations and resemblances of a hybrid to its parents. Though careful scientific students like Kolreuter, Gartner, Naudin, Wichura and Darwin favored the view that hybrids are averagely intermediate between the parents, their eyes were open to the fact that the appearance of erratic and divergent forms occasionally seemed to weaken their position. Among florists the aim appeared often to be the obtaining of marvels rather than improvements, and so the many evenly balanced crosses were less noticed than the divergent ones. Our gardening journals for decades presented articles in which the prepotency of the male parent was warmly supported by some—and we should judge by the majority—while that of the female was as keenly held by others. From extended observations that the writer has made alike on living plants and on their minute tissues, he adheres to the view that an average hybrid is nearly intermediate between its parents. But it is to be remembered that if individuals of the same species are built up of unstable and easily decomposed chemical compounds such will probably be truer of a hybrid, which may well be regarded as an attempt to make two diverse things balance as one. We need not be surprised then that so many freaks appear, some of which vibrate toward one parent, some toward the other.

Many of you may be inclined now to ask —What remains to be done by the florist? To that I answer, "Nearly everything," and I am persuaded this correctly expresses the true position of affairs to-day. My reasons for giving the answer are: First, that many of the finest flowering plants are not yet in cultivation. Take, for example, the exotic field that lies most conveniently to ourselves. I mean central America from New Mexico to the Argentine Republic. Though we are already indebted to that vast region for many of our best stove and greenhouse plants, it resources have scarcely been touched except in the matter of orchids. The same is true also of central Africa and Asia, of New Guinea and many of the Pacific islands. Second—If we take as a criterion the work done among a few species during the last twenty years the answer is a correct one. Third—If we consider the limited facilities and the many hindrances that have hitherto existed in conducting pollination experiments the wonder is that so much has been done. The hybridizer has frequently to accept as parents not what he will, but what he must. He may wish to cross two species from whose descendants he hopes for great things, but he has only one parent in flower. He hunts up his gardening friends to see if they can supply pollen of the other or of some suitable parent. Happy is he if his search is successful.

In speaking as I have done of exotic plants do not suppose that I discourage the culture of our native plants. Far too little attention has been given them. But what, it may be asked, are the groups



VIEW OF PART OF NEW YORK STATE DISPLAY IN ONE OF THE SMALL GREENHOUSES AT THE WORLD'S FAIR. SHOWING ARISTOLOCHIA WITH SIX FLOWERS SUSPENDED FROM WIRE ACROSS CENTER OF HOUSE.

that deserve attention? We have a wide field to choose from, but I can only indicate a few. Some of our native and exotic polygalas have a habit, floral structure and color that entirely commend them. The St. John's worts or hypericums are now becoming favorites on rockwork and in herbaceous borders, and though natural hybrids have now and again been recorded, the pretty H. Moserianum is an artificial one of recent date that all speak well of. Others should be forthcoming. It is surprising that so few of the Malvaceæ have hitherto been worked. Our native swamp mallow (Hibiscus Moscheutos) is a noble plant, and if crossed by a dwarfer species something very distinct might be gotten. Hibiscus, abutilon and malva are all deserving of attention.

Pelargonium has hitherto ruled supreme among Geraniaceæ, but why is it that the genus oxalis, cultivated for more than a century and including nearly 250 species, has yielded only a few sports and still fewer hybrids? We venture to predict that were crossing and selection practiced here the oxalis would again become the favorites they once were. Equally true is it of impatiens. Some fine species are now common, and, though annual, their rapid growth and wealth of blossom puts them alongside the petunias that have had so much favor shown them.

It has always seemed to the writer remarkable that the pea order should have furnished so few crosses even under cultivation. Neglect may be the simple explanation. Already we have the gorgeous hybrids of Brownea, but the whole group is practically untouched. Skill and care will be needed in manipulating them. As already indicated, nature shows us that the rose order is an inviting one, but though fine hybrids of rosa, geum and potentilla are in cultivation many herbaceous, shrubby and tree types remain to be taken in hand.

I should like to linger for a little over the Onagraceæ. The successes wrought on the continent with fuchsia from the southern hemisphere should meet with a response from Americans in the species of Œnothera, a genus that includes nearly a century of species, mostly western American. Such lovely evening primroses as Œ. Whitneyi, Œ. marginata and Œ. cœspitosa might have their rather short-lived flowers prolonged, their habit improved and their scent accentuated by union with Œ. speciosa. Or some of these again might be combined with the large yellow flowered species. In aiming at such crosses our florists should not think only of the short twilight prevalent over many of the states, but of the longer one enjoyed in England and other European countries where these handsome plants are eagerly welcomed.

If any order deserves to be called American and *par excellence* St. Louisian, that is the Cactaceæ. The ease with which they can be crossed and the small care needed in their cultivation are most commendable qualities. If we may judge from past experience the order lends itself well to the hybridizer, as is proved by the union not merely of cereus and phyllocactus, but of these again with epiphyllum.

We spoke of Central America as a source of supplies, but the wealth of such rubiaceous genera as plumiera would alone furnish material for extended work. The remarks made regarding the pea order equally apply to the still larger group of the daisies and sunflowers. Many wild hybrids of the hawkweeds and thistles are known, but garden hybrids are rare. Yet see how much success has come to the Erfurt strains of zinnia and to the now time-honored dahlia. These are finger posts to the florist in the truest sense. Did time permit, the heaths, the milkweeds and many others might be noted, but one group cannot be passed over. All who have seen a well grown specimen of Bignonia venusta clambering over some Florida home or wreathing the roof girders of a hothouse further north have stopped to admire. It and its allies are choice climbers. Blending of such hardy species as B. capreolata and B. grandiflora with other yellows and reds, also of B. speciosa, B. purpurea and the lovely Mascarene B. telfairiæ, would be noble work in itself.

Among Monocotyledons the orchids, cannas, hedychiums and amaryllis have been so prolific in blending that we may safely take them as an index for all, and as a verification of my position that

however much has been done the serious work and best fruits are yet before us.

In conclusion let me suggest to some enterprising florist an idea that has often occurred to me. All leading commercial governments of the world are now wisely establishing stations for rearing, propagating and distributing economic and other plants. Would it not repay the efforts of private firms to do likewise? Mexico and central South America are rich fields that are daily becoming more accessible. Such a forward step might mark the commencement of fresh triumphs in the floral world.

The World's Fair.

Just now the great feature at the Fair is the canna display, which will continue in fine order from now until frost. It is, without doubt, the finest canna display ever collected in one place, and it affords a fine opportunity to compare various varieties. The exhibitors are the F. R. Pierson Co., J. C. Vaughan, Pitcher & Manda, H. A. Dreer and Robt. Craig in the main display, while I. N. Kramer & Son show some seedlings west of the large building.

At the south end are some mixed beds from Pitcher & Manda, and beds filled with one variety only from the F. R. Pierson Co. Alphonse Bouvier is in fine order; the brilliant red flowers and rich green leaves make a fine contrast, and it is blooming most abundantly. Capt. P. de Suzzoni, yellow, spotted with red, green leaves, is one of the best of the yellows and is covered with flowers. Mme. Crozy we are all familiar with, and it is doing well. Chas. Henderson, a variety with brilliant deep red flowers, is a very compact dwarf grower and should be desirable bordering taller sorts. Explorateur Crampbel is a dwarf red flowered sort, but it does not seem so free as Chas. Henderson, at least it is not blooming so freely in its present situation. Francois Crozy is a very dwarf sort with brilliant orange flowers; the flowers appear to stand very well, not burning so much as some of the lighter ones. Paul Bruant is a dwarf variety with scarlet flowers, borne in tall spikes. Count Horace de Choiseul is very dwarf with bright red flowers.

Among sorts with bronze foliage is J. D. Cabos, with deep orange flowers. It has a fine habit and is blooming freely, but the flowers appear to burn easily, and their effect is spoiled by the bleached, faded petals. President Carnot is a bronze-foliaged sort with bright red flowers, and it appears to be one of the first rank; it is very handsome.

Paul Marquant is an attractive sort with beautiful light scarlet flowers and rather narrow green leaves, but it does not give the impression of so strong a constitution as some of the others. The same impression is given by Miss Sarah Hill, red flower and green leaf, although this last named sort has a good habit. Secretary Stewart is not at present blooming very freely; it has handsome red flowers, green leaves, and a robust habit.

J. C. Vaughan's exhibit in front of the main entrance is in fine order; in addition to some of the varieties previously noted it includes Mlle. Crillon, yellow flowers shading to deep apricot, and Florence Vaughan, yellow spotted with red. Florence Vaughan is really one of the very best in its color, it is free, robust, and the flowers stand well.

On the north side are H. A. Dreer's and Robt. Craig's exhibits. Enfant du Rhone has a pleasing reddish apricot flower, but the growth is rather slender. Duchess de Montenard has a yellow flower, shading to apricot; the leaves are large and the habit very robust. Baronne de Renowardy has good light red flowers, rather slender growth and pointed leaves with curving edge. Statuaire Fulconis is another red flowered sort, but did not make a very good impression. Edw. Michel is a very good one, with brilliant orange red flowers.

Among varieties shown in Robt. Craig's exhibit, which were not duplicated in any other display, is Egandale, an excellent bronze-leafed variety with bright scarlet flowers; Geo. W. Childs, red, with golden markings, and a new unnamed seedling, with yellow and apricot flowers. The beauty of these great beds can not be understood without seeing them; they are remarkable, set in the rich green lawn without conflicting plants in their vicinity.

I. N. Kramer & Son have a very good red flowered seedling in bloom west of the Horticultural Building. It is called Columbia and is very good in color and habit.

The nymphæas are now blooming more freely, both in the inner court and outside the Horticultural Building. The new N. Laydekeri rosea is in bloom in Wm. Tricker's exhibit; it is a distinct flower, in color a deep rose shaded with violet. Other nymphæas in bloom in this exhibit are N. Zanzibarensis, N. gigantea, N. Marliacea rosea, N. Marliacea albida, N. Marliacea chromatella, N. gracilis, N. Devoniensis superba, N. odorata sulphurea, and N. pygmæa helviola, a yellow form of the tiny pygmæa. A number of nymphæas are blooming in the Sturtevant exhibit in the south court and the little floating heart, or water shield (Limnanthemum indicum), is showing an abundance of its odd little blooms. But the foliage of the aquatics in both cases is much marred by the clouds of dust; these basins ought to be surrounded with lawn for the sake of the foliage.

On the Island the phlox is still fine, and Hydrangea paniculata grandiflora is blooming finely. Another shrub which looks well now is Cassia Marylandica, the American senna, which shows ample spikes of yellow pea-shaped blossoms.



Seasonable Hints.

Florists suitably located for a retail trade will have quite a demand in the fall for pot grown carnations if the right kinds, well grown, can be produced. For this purpose it is well to select the plants early, choosing good bushy plants of such varieties as make a compact growth. As very suitable for the purpose we would mention the following: Buttercup, Century, Tidal Wave, L. L. Lamborn, Portia, Mrs. Fisher, Grace Wilder, Wm. F. Dreer, Golden Gate, Seawan, E. G. Hill, Pride of Kennett, Sunrise, Dawn, American Flag, Robt. Craig, etc. The tall straggly growing sorts as a rule should be avoided. These may be lifted from the field the same as if we intended to plant them in the bench. Pots should be chosen of suitable size, 5 or 6-inch being mostly used. A pretty large plant can be put in a 6-inch pot. Use the ordinary compost for potting, settling the soil well and firmly around the plant. Set them in the house, giving them room enough on the bench to grow, leaving a little space about each plant for air and light. Treat them similarly to the plants that are in the benches. They will soon take hold and make fine plants for the sitting room or conservatory.

For spring sales there is nothing better than the smaller plants from the field, carried over in cold frames or a cool house. Three-inch pots will carry these through the winter. They should be kept pretty dry, and a little freezing will not hurt them. Towards spring they may be repotted and set in a warmer place to start them into growth. They should be topped at this time to insure a good stocky growth. Such plants also make excellent stock for summer bloom. For this purpose they should be held in the frames and planted out in open ground as soon as the ground can be got ready for them and the weather will permit. They can then be treated pretty much as other plants growing in the field, only a light mulch of cut straw should be strewn in the rows to keep the flowers clean. This is easier and cheaper than staking.

As a summer-blooming plant carnations are very much neglected in this country. The attention of producers has all been given to obtaining winter blooming kinds. But we have no doubt time will produce good summer blooming varieties of our American carnation. We have no faith in the foreign sorts for this or any other purpose excepting their use in cross fertilization. It seems that the American carnations are decidedly the best for this country, and it will not be long before we have them suitable for all purposes.

W. R. SHELMIRE.

Avondale, Pa.

Grub Worms.

In reply to the question about grub worms, from the Kemble Floral Co., would say that the worms they complain of in their manure are simply the larvæ of the common horse fly, belonging to the family *diptera;* these so-called grubs I have never found to do any harm materially to plant life. They are in the larval state some two weeks after first discovered and then gradually develop into the flies and assume their natural course.

The kind of grubs that usually do harm to roses belong to a totally different order, viz.: the June bug or chafer. This is a much larger grub, with brown head and usually a curved body somewhat in the shape of a horse shoe; these are very destructive to the roots of all kinds of vegetation. Roses seem to have a special affinity for them, or they for the roses, rather, as they will eat the bark off all around the stem just under the soil, leaving the plant to wither up and die in a very few days. The only remedy that I have found yet is "ketch 'em and kill 'em." Lime has no effect upon them whatever, in fact I think they seem rather to delight in it. The best means of destroying them that I know of is to thoroughly examine the soil before taking it into the house, then if any of them are found they can be caught before they do any damage.

There are several other kinds of grubs of various species which are more or less injurious, but fortunately for the plants are not very numerous. Wire worms are a species of grub and are injurious; also the larvæ of what are commonly called "daddy-long-legs." These are very destructive and wherever these insects are numerous they should be caught and



LAGERSTROMIA INDICA ALBA IN NEW ORLEANS.

destroyed, as they deposit their eggs in the soil and in the coming spring the larvæ will do considerable damage to the young roots. They may not cause such serious trouble as to be perceptible to the casual observer, but it is well to guard against anything that is likely to mar or injure a plant at any season of the year.

Referring to the chafer or June bug larvæ, mentioned above, they are never found in the manure but always come in with the soil. Anything in the way of trees growing in the neighborhood of the soil before collected will be very apt to give you a full crop of them, as the eggs are deposited on the leaves of the trees which fall on the ground, and from there they bury themselves in the soil and for several months before maturing are very injurious even to grass roots where they are numerous, therefore it would be well to avoid the neighborhood of trees as much as possible in collecting the soil for use in the greenhouse.

Summit, N. J. JOHN N. MAY.

Lagerstromia Indica Alba.

The engraving is from a photograph sent us by Mr. Harry Papworth, of a handsome specimen now in bloom at Palm Villa, New Orleans. Mr. Papworth writes under date of July 31. "The plant has been in bloom as seen in the photo for two months and will continue to bloom for another month. This is the finest white specimen in the south and it is without doubt the best and most showy flowering plant grown in this climate. It is cut back to the hard wood every year, which causes it to break very freely and also keeps it in good shape. It is a native of China, and like most Chinese plants, does well in New Orleans."

Philadelphia.

Another move in the La Roche & Stahl tangle was made on Thursday, the 25th inst., when the personal property at the nurseries in Collingdale was sold by the sheriff for $1,575. The next day the store fixtures, stock, good will and lease at 13th and Chestnut were also sold under the same execution and brought $244. These sales comprised all the personal property, which figured in the list of assets given the creditors as amounting to $27,550, actual value turns out to be $1,819. The book accounts, which are said to be worth $5,000, can not be sold by the sheriff, though individual accounts can be attached by any creditor having a judgment.

The Market Street National Bank bought in the property and it will be managed for their benefit. This portion of the property is now out of the hands of the trustee, and the money received will be divided pro rata among all the creditors. The balance of the assets, $64,750, is in real estate and mortgages and is still controlled by the trustee. As all would not consent to the proposition of the firm in the extension of time the only thing that remains to do is to sell the property and divide the proceeds. It is to be hoped that the real estate will prove more valuable than the personal property, which will pay but a little over 8% per cent of its estimated value. Mr. La Roche says no matter what the estate may bring the florist creditors they will eventually receive dollar for dollar. The firm have divided their store with a partition down the middle and rented the corner property to a cigar firm. The business of china repairing which they have conducted for several years, and to which they gave up one window and a portion of their store, has been moved to No. 111 South 13th street and will be conducted by and under the name of Joseph Blachowski, a former employe.

'Tis midsummer indeed and the queen of the dog days, the aster, is everywhere abundant. Some very fine flowers and great variety of colors are to be seen, and as they keep very well the florists' windows are full of them. Vases of gladiolus and buckets of Hydrangea paniculata help to make a variety. The people who buy flowers when they can get them cheap enough should now have their houses decorated "up to the queen's taste," for they can be had almost for the asking.

Good roses are selling at from $2 to $4 a hundred, and many even cheaper. Asters bring from 25 to 75 cents a hundred. Hydrangea is sold by the arm full. Carnations from 50 to 75 cents a hundred, while some few ask a dollar.

"What was the matter with you fellows anyhow? The idea of letting the New Yorkers get away with you that way. If it was only a few pins, but 299, you must have all been asleep." This and similar comments were thrown at the boys promiscuously on their return home. It's bad enough to be defeated without being nagged about it, but it is human nature. If the team had won the bowlers would have had a grand time and their reception would have been all they could have wished for. There is a great deal said about a certain "scrub" team and what they did, but we venture to say that there will be no scrub teams in the race next year and there will not be very much difference between the leaders at the finish. Boston, Washington, Chicago and St. Louis will be sure to have good teams, and there is no telling of the dark horses that may make their appearance.

To a great many the World's Fair at Chicago was considered of more importance than the convention, and a number of the Philadelphia brethren skipped St. Louis and spent all their time at the Exposition. Too much can not be said in praise of this grand exhibition; any person who can possibly spare the time should not let the opportunity go by to witness this great collection of the master pieces of man. To see the buildings and grounds is alone worth the journey. There is no bedding to speak of, but we never saw such grass anywhere as there is in some of the plats along the banks of the lagoon. In the fall these spaces had been planted with thousands of tulips, hyacinths and other spring blooming bulbs, but they were never allowed to bloom, as just as the flower buds began to open they were all taken up to make room for the grass. Green and white are

the two colors of the Exposition, the green of the grass and the white of the buildings, which are all alike in this respect. There was over fifty thousand dollars spent in greenhouses and labor in getting up a stock of foliage plants for bedding, but they were all thrown out or given away, as the landscape gardener would not allow them to be used in the grounds. It was only after considerable pressure had been brought to bear that permission was given to plant the large beds of cannas which now decorate the lawn in front of the Horticultural Building.

Pictures in black and white are the pride of certain artists, while the multitude prefer those that contain more of the colors of the rainbow, and we feel sure that this is the case with the majority of the people concerning landscape gardening. Where there is one who prefers the all green landscape there are ninety-nine who would like to see all the beauties of nature spread before them.

The bedding in Washington Park, Chicago, attracts the people, there is no question about it; crowds linger about these beds all day long, and photographic outfits are continually seen on the lawns trying to carry away and perpetuate the lovely flower pictures. The plan here is not to our mind perfect, but it is a move in the right direction and no doubt the forerunner of something better. K.

Chicago.

Mr. Chas. Held, North Campbell avenue, is overhauling his forcing houses and putting them in first-class shape for the coming season.

E. Franka, Clara Place, has rebuilt a 20x80 foot carnation house.

E. Hobbs, Indiana avenue, is arranging two floors 75x90 feet for mushroom growing, a branch which Mr. H. is thoroughly familiar with.

Aug. Dresel, the veteran rose grower on North Western avenue, has built a fine new house 20x180 and is now putting in a mammoth boiler of 200 horse power. Mr. D. pushes his extensive business with all his old time vigor of 20 years ago, and his young rose plants are looking finely.

Albert J. Harms, Berteau avenue, is building a 15x50 foot carnation house.

At Ravenswood I. Naslund is putting in a new boiler for his range of nine houses and has erected a 60-foot brick chimney. Near Bowmanville Anton Then has just completed an elegant range of rose and carnation houses. There are four of the former, each 18x150 feet, and three of the latter, 16x100, with a boiler shed 40x80 and two fine hot water boilers. Mr. M. Then is in charge and the young roses are looking well. Mr. J. A. Budlong's mammoth rose house is showing up well. The careful personal supervision of all working details which Mr. B. gives to his business is a reasonably sure cure for nearly all kinds of hard times that are possible.

The drouth has checked seriously the growth of nearly all outdoor stock and many growers are taking in their carnations as well as violets.

At Morton Grove Poehlman Bros. are doing splendid work and their whole place is in apple pie order. Huscher and Miller complain of effects of dry weather and are planting their carnation houses. Jacob Meier has added a fine propagating house 10x90 feet. His Beauties and Perles are looking extra fine. F. Stielow has put in two new 13 foot Kroeschell boilers capable of heating 20,000 feet of pipe, and has remodeled his entire piping arrangements. His outside stock looks well despite the drouth. He finds Hector a splendid summer blooming carnation. Mr. S., notwithstanding his close application to business, still finds time for his "annual convention," which consists of a hunting trip to South Dakota, where

"Thunders the sport, with gun,
And dog impatient bounding at the shot."

He has well earned his vacations.

Brant & Noe, on the old Page establishment at Forest Glen, have had a stupendous piece of work in rebuilding the entire 95,000 feet. The sides, ends and benches of all have been renewed and much of the piping has been changed, every roof reglazed, three new boilers have been put in, and in spite of the fact that this has all been done in eight weeks they have found time to plant many of their rose houses. Mr. Brant has a general supervision of the whole, ably assisted by Fred Mendoza, the foreman.

Mr. L. Ine, at the National Bohemian Cemetery, has a fine display of outside bedding. He is renewing benches and repairing heating apparatus.

In general the trade seems to have accepted some suggestions on the heating question from the past severe winter.

Mr. E. Hobbs believes that a most thorough watering of all forcing bulbs after planting in flats or pots is more important in securing good results than many growers realize.

Nicholas Singler, the well known carnation grower of Washington Heights, died last week of inflammation of the bowels, aged 46 years. Mr. Singler was born in Baden, Germany, and came to America with his parents when only 8 years old. His father settled in Englewood. Mr. Singler founded the establishment at Washington Heights 18 years ago, adding on new houses from year to year until now it is one of the most extensive around Chicago. He made a specialty of the carnation and was probably the largest grower of this flower in the west. He made his business a financial success and leaves a comfortable fortune to the widow, five sons and four daughters that survive him. The funeral was held Sunday, the 27th inst., and was attended by a large delegation of members of the Florist Club, of which he had been a member since its inception. Handsome floral tributes were sent by the club and by various individual florists also. Mr. Singler was a member of the Society of American Florists and was present at the St. Louis convention. He then seemed to be in excellent health, and the announcement of his sudden death was a severe shock to his many friends in the trade.

We have been requested by the family of the late Nicholas Singler to publicly express their thanks to the members of the Florist Club for the respect shown the memory of the husband and father through attendance at the funeral and numerous floral tributes.

For the past week business has been excessively quiet; there is really nothing doing. Flowers are plentiful, and purchasers want the best only; inferior products are wasted. The roses are chiefly from young stock and are rather small, but the color is generally good. Carnations are wonderfully improved in quality, though they are not by any means all one could desire yet. Asters are still tremendously overstocked; white is really the only color that sells. Hydrangea is seen, though not in large quantities, but the demand for it is limited. Auratum lilies are still coming in. So far there is but little autumnal outdoor stuff to be seen, such as dahlias and the like, and it is more than probable that much of this class will be injured by the drouth.

Among recent visitors were W. W. Tailby, Wellesley, Mass.; Wm. Gammage, London, Ont.; Wm. Falconer, Glen Cove, N. Y.; W. L. Baker, Philadelphia; C. S. Ford, Philadelphia; Miss M. Ostertag, St. Louis; H. C. Ostertag, St. Louis; C. C. Sanders, St. Louis; Wm. McKellar, Chillicothe, Ohio; G. Gross, Quincy, Ill.; Olaf Johnson, Jr., Memphis, Tenn.; W. C. Jordan, Philadelphia: J. D. Imlay and wife, Zanesville, Ohio; Mrs. A. E. Markee, Reedsburg, Wis.; J. F. Wilcox, Council Bluffs, Iowa; S. Spencer, Pesotum, Ill.

Buffalo.

Base ball is not horticulture in any of its branches, but horticulturists must have a little recreation, even if times are hard, and the national game affords the best medium to that end. So you will have to excuse me if I give you a short chapter about the game of ball between Buffalo and Rochester which took place in the latter city on Tuesday, August 22.

When the Rochester men visited this city a few weeks ago we endeavored in a feeble way to entertain them, to prevent them from getting parched, etc., but oh my! how poor were our efforts when compared to what they did for us last Tuesday.

The Buffalo nine arrived in Rochester about 11 a. m., and a disjointed and uneven looking lot they were. There were two or three men among them with silver locks, who were old enough to know better, and there were kids of only 17 and upwards. As the Buffalo nine stood on the beautiful stone steps of the Rochester station the captain of the Bisons was a little ashamed of the motley aggregation. There were seven or eight carriages and private rigs waiting to conduct us to the points of greatest interest. As Richard Salter remarked, "you don't want to see any greenhouses, they are nothing more than you have yourself," so they drove in a bee line for the Bartholemy Brewing Co., one of the largest and most complete of its kind in this great state. We were conducted to the office and introduced to the proprietor and also a gentleman called "Bohemian." The first Mr. B. grasped us by the hand but once, but the second B. was around us, over us, under us, in us, and continually with us, till we discovered a mean device, viz., "If we can't outplay them on their merits we can render them indifferent to the result." A beautiful drive on both sides of the picturesque Genesee succeeded the interview with the Bohemian; another call at about as large an establishment, and then a great lunch at the best restaurant in town. Then a chartered car to Culver Park, where many a hard fought game in the International League has been played.

The game was played for all it was worth. Before the game began the second division of the Bisons arrived, in the shape of Prof. Cowell, Dan'l B. Long, Mike Bloy and S. Pickleman. There was only one player in this lot, but the quartette was sincerely welcome for they added "tone" to the Buffalo representatives. The game itself is easily told. The score was 10 to 6 in favor of Rochester. Up to the seventh inning it was a see saw and great excitement prevailed, but they got there in spite of the brilliant work of the Buffalo infield. There was a large audience to witness the game, but the cheering was naturally all for Rochester.

The great features of the game were the battery work of C. Vick, pitcher, and Ed. Vick, catcher, and the general infield work of the Rochesters. The most noticeable work of the Buffalos was the catching of Philip Scott and pitching of M. Bloy for merit, and for rank play the fruitless efforts of J. H. Rebstock, E. Mepsted and W. Scott to catch or even stop flies. There was any number of star plays, but we were handicapped. George Savage was in the grand stand and rooting for his boys. How could we win?

"After the game was over but long ere the break of morn," we were hustled into the chartered car and landed at Ontario Beach. There are few more lovely places in this country than that. What a place to hold a national convention, with its magnificent hotels, pavilions, music, water and flowers. After seeing a man (the same man walked the Niagara gorge a few weeks ago) dance a waltz 150 feet above hard ground we were conducted to a magnificent banquet in the Cottage Hotel. There was too much music to make yourself heard, but a bashful member of the Buffalos attempted to acknowledge the prodigious hospitality of the Rochester men. A ride back to the city found us near the time to catch a flyer for Buffalo. After an expression from one and all of the visitors that the welcome, the entertainment, the magnificent hospitality, had never been equalled in their experience, there was a general handshake and the man at the gate hallooed "all aboard going west." There was more than one who said, "a national convention is 'not in it' with this."

A few notes of the game of great importance were we were sadly handicapped. On our arrival at the banks of the Genesee we were first pounced on by a band of ruthless "Vick"ings, we were then "Saltered," then "Fryed," and then after a through cooking handed over to a "Savage;" but George was gentle and for the time forgot his favorite cypripedium and for the day entered into the spirit of the game in a truly barbarous style. It would be invidious for me to mention any one who did more than another to make that day enjoyable. They must all of them have exerted themselves immensely to have attained a result so complete, so grandly hospitable, that no participant will ever forget.

Allie Salter is the stayer of the boys and a few of the party not getting the first train, Allie stopped and saw them aboard.

W. S.

New York.

The cut flower trade is about as dull as it can be. By unanimous consent it is declared the poorest season up to date. Speculation as to the future, especially as to the prospects for next winter, is the most abundant commodity. Like the political giants at the national capital, each one interested has his own explanation of the present condition of the trade and the remedies for the same, and, as in the case of the aforesaid political giants, there are not two who exactly agree in their views. One thing is assured. There will be more roses grown for this market the coming season than ever before. Plenty of new houses have been erected, and good houses they are too. It is tolerably certain also that the crop of carnations will be the biggest on record. And the bulbous stock—well, that is another story.

At present the quality of the roses is by no means good. The only rose that really holds its head up and demands a first-class certificate of character as a perfect summer rose is the Meteor. It is coming in in grand form, the only drawback being that there are often too many of them. Another rose which is, rather unexpectedly, making some friends as a valuable summer variety is the Testout. American Beauty of course brings the highest price. Carnations are very scarce, but with veritable cartloads of asters all around, the carnations are not greatly missed. Two to three cents per bunch of a dozen or more is as high a price as can be realized on asters. Gladioli sell at $1 to $1.50 per hundred, and Hydrangea paniculata doesn't sell at all.

The hurrah over the accomplishments of the New York bowlers at St. Louis has not yet subsided. Theodore Roehrs, the center pin of the old aggregation, on hearing of the great victory, is said to have given his head a very wise shake and remarked, "How they will crow."

The new silver medal of the New York Florists' Club is very handsome and ought to be a prime incentive to cultivators to make an effort to produce something worthy of such an award. The medal will be on exhibition at the next meeting of the club.

Mr. John Young, formerly of Young Bros., has gone into business in his own name and has opened a cut flower commission house at 46 West 30th street. 30th street bids fair to become the leading cut flower street, there being now six wholesale establishments there.

Mr. Jas. A. Hammond, who succeeded to the Isaac Buchanan business at 407 5th avenue several years ago, has made an assignment to Z. Francis Barnes. Mr. Hammond has been concerned in some outside business, but the exact cause of his suspension is not yet known.

Alderman Morris' floral establishment in Jefferson Market is said to be a general headquarters for the bi-metalists.

THE thirty-fifth annual report of the Missouri Horticultural Society, lately received, contains the transactions of that body during the year 1892. It may be obtained by application to the secretary, L. A. Goodman, Westport, Mo.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By experienced grower. C. HAKANSON, 195 W. 5th St., Oswego, N. Y.

SITUATION WANTED—As assistant florist by temperate young man. State probable wages. F B, Lock Box "D", Sanborn, N. Y.

SITUATION WANTED—By a good florist not afraid of work. State wages. Address A, care American Florist, Chicago.

SITUATION WANTED—As first-class rose grower; late with Dingee & Conard Co. Address G. F. LONGSDON, 844 W. Lake St., Chicago.

SITUATION WANTED—By a florist, over 20 years' experience in all branches; is a first-class decorator. Address H, care American Florist, Chicago.

SITUATION WANTED—By a florist, single, with over 20 years' experience, on private or commercial place. References. GEO. MUNICH, Attica, N. Y.

SITUATION WANTED—By a young German gardener; only a short time in America, will work at anything in florist line. Address G. BOETTCHER, 3140 Laurel St., Chicago.

SITUATION WANTED—By a young man, 21, who has experience in general greenhouse work. Reference given. State wages. Address W, care W. B. Reed, Chambersburg, Pa.

SITUATION WANTED—By professional florist and gardener, well up in all branches of the trade. Address H J, care Adam Sekenger, 12 Newbury St., Bangor, Me.

SITUATION WANTED—In vicinity of Chicago, in private, or assistant on large commercial place. Good florist and gardener. Good references. Single, 24. Address J D, box 143, Lyons, Ill.

SITUATION WANTED—By a competent all round man; 11 years' experience in best places in Sweden, Denmark and Germany. Best of references furnished. Address P. G. PEARSON, box 696, Batavia, Ill.

SITUATION WANTED—By first class florist, commercial or private, German, married, small family; 15 years experience in all branches; good references. Address A R, care American Florist.

SITUATION WANTED—By a first-class florist and gardener, who understands the business thoroughly; 10 years' experience in Europe and U. S.; Swede, age 26, single. Address P. G. PEARSON, box 696, Batavia, Ill.

SITUATION WANTED—By a competent man of 12 years' experience—6 years' experience each in Europe and and the United States. Best of references given on application. State wages. Address O P, care American Florist, Chicago.

SITUATION WANTED—By a first-class florist, with 14 years' experience in growing roses, palms and general greenhouse stock. Good designer and decorator; single; sober and steady. Good references. Address H, care American Florist, Chicago.

SITUATION WANTED—By a German, 22 years of age; having 7 years' experience in Germany and in Switzerland in roses, carnations and plants; 1 year in America, and speak some English. Best of references given. Address P. MADER, Frankfort, Ky.

SITUATION WANTED—As foreman on a private place by an honest, modest, single man, 25 years of age, German; well experienced in all branches of the business. First-class recommendations; open for engagement any time desired. Please address M S, care American Florist, Chicago.

SITUATION WANTED—Lanscape gardener; capable, industrious, able to draw and work after his own maps, wants engagement with trade or private parties. References exchanged. Willing to invest small capital with reliable party in good location. Address AMBITION, P. O. box 2332, New York City.

SITUATION WANTED—By first-class German binder and decorator; also experienced in cut flowers market and winter-flowering plants, strong, energetic, single and reliable man; has capital, and later on would like to go into company. Address, stating wages, OTTO HUECKSTEDT, 75 Avrille Ave., Rochester, N. Y.

WANTED TO RENT—A few greenhouses with some ground, near Chicago. Address L M, care American Florist, Chicago.

WANTED—A single man who understands rose growing; not afraid to work. Good wages. Address A K, care American Florist, Chicago.

WANTED—In a commercial establishment in Grand Rapids, Michigan, a thoroughly competent man, as working foreman. Must be a first-class rose grower and general propagator. No one addicted to drink or profanity need apply. Address J. W. RAWLINSON, 130 Monroe St., Grand Rapids, Mich.

FOR RENT—12 greenhouses, at moderate rate. Address YOUNG, Narberth P. O., Penna. Via P. R. R.

FOR SALE OR LET—A valuable florist establishment near depot. Apply to JACOB MENDEL, Nyack, N. Y.

FOR SALE—1,500 feet of 4-inch pipe—good as new—and also fittings. Price $10.00 per 100; $80.00 per 1000. MRS. GEO. WALDBAUER, Saginaw, Mich.

FOR SALE—Cheap for cash, 1 No. 4 Weathered hot water boiler with about 600 ft. of 4-inch pipe; all in good order. Address G. VAN BOCHOVE & BRO., Kalamazoo, Mich.

FOR SALE—2,000 feet 4-inch pipe at 7 cents a foot. Tees and elbows at 15 cents. Also ½ doz. valves. Address J. F. KLIMMER, Desplaines and Harrison Ave., Oak Park, Ill.

FOR SALE—A rare opportunity to buy a florist establishment in one of the best large cities in the South; three houses, pit-frames, etc., large lot in heart of city, cheap lease payable monthly. Live man can clear the place in six months. Write quick. Satisfactory reasons for selling. Opportunity given to investigate. Address SOUTH, care American Florist.

FOR SALE WITHOUT RESERVE.

Collection of Palms; fine specimens of Latania borbonica, Areca, Phoenix, Seaforthias, Kentias and other rare varieties, varying in height from 4 ft. to 8 or 9 ft.; some smaller plants. For particulars address

Manager Gordon Park Greenhouses,
GLENVILLE, Cuyahoga Co., OHIO.

FOR SALE OR RENT.

Rose and cut flower growing plant containing about 35,000 square feet of glass; houses heated by steam and hot water; all in good condition; well stocked with roses, ferns, palms, etc. Only 18 minutes ride from center of city. If you mean business, address

FLORIST, care Chas. E. Prather, Louisville, Ky.

FOR SALE OR TO RENT.

The following greenhouse property, situated on the outskirts of Springfield, the City of Houses; or will sell Greenhouses, Stock and Fixtures and give ten years' lease of 2 acres land. Ten houses in all—5 houses, 10 feet wide, 65 feet long; 4 houses, 18 feet wide, 65 feet long; 1 house, 18 feet wide, 65 feet long. Steam plant! New double Florida Boiler. Stock in good condition, with a large and extra good home market. This is an opportunity in a life-time, as present owner has other interests to look after. If you are looking for a chance, apply at once to

N. D. WINTER.
5 Elm Street, SPRINGFIELD, MASS.

The Chrysanthemum Society of America.

It is a matter for regret that at the meeting of the Chrysanthemum Society of America, held at St. Louis during the convention of the S. A. F., it was decided to again change the name of that organization. It is to be hoped that it is a reporter's or a printer's error. For when the Chrysanthemum Society of America was organized at Buffalo the name first suggested was the National Chrysanthemum Society. It soon dawned upon those who were interested that the title mentioned would not do, because the National Chrysanthemum Society of England is known by that name; besides the Chrysanthemum Society of America is more expressive as a title, and much more comprehensive.

When National Chrysanthemum Society was rejected as a name that of American Chrysanthemum Society was adopted. But realizing that the initials of the American Carnation Society were the same, and in order to allow of abbreviations when deemed advisable, the committee (Messrs. Harris, Craig and Lonsdale) having the matter of amending the constitution and by-laws in charge decided to propose the adoption of the name beading these notes as being distinctive and better than any others which have been suggested and in use before. It is to be hoped that at the meeting which is announced to take place at Philadelphia next November the matter will be thoroughly discussed and the name reported by the committee will be adopted.

The idea of holding an annual meeting at one of the large cities during the chrysanthemum season is an excellent one and should be productive of much benefit to the Queen of Autumn and all concerned. There are too many other duties to attend to by those who are directly interested in chrysanthemums at the regular summer meetings of the S. A. F. to accomplish much in the line of reforms or improvements, but a meeting each year in November is decidedly a step in the right direction. EDWIN LONSDALE.

A Correction.

In my essay on "How to increase the love of flowers," read at the St. Louis convention, credit was given to the Amateur Gardeners' Society of Springfield, Mass., for good work done in trying to educate the young in growing flowers. It seems that the *Hampden County Horticultural Society* was the society which should have gotten this credit, as appears from the following communication sent me by Mr. W. F. Gale of Springfield:

"I have read your article, 'How can we best increase the love of flowers among the people,' with a great deal of interest, and I wish to correct a slight error that refers to our city (page 14, AMERICAN FLORIST, Aug 10). You call attention to the "Amateur Gardeners' Society" as leaders in the good work of interesting the young. There are two horticultural societies here, the *Amateur Horticultural Society* and the *Hampden County Horticultural Society*. The former has never done anything to interest the young, unless it is to hold shows without any premiums. The society that has done so much for the children is the old Hampden County Horticultural Society. Three years ago they gave out 3,000 chrysanthemum plants to school children, who returned them to the chrysanthemum show in November and took premiums as per our year book, which I send you (1892). The following year we gave out 5,000 plants with the same premiums (1892 list). Last spring we did not give out the plants but doubled the premiums (see 1893 list). We expect good results at the November show."

This matter of trying to interest the young is, in my humble opinion, far too much neglected by our older societies in spite of the frequent favorable comment which the matter has received the past few years. I hope that the committees on establishing premiums will take the matter up and give it a place in the schedules hereafter. G. C. WATSON.

Philadelphia.

FIELD-GROWN CARNATIONS.

I offer the following varieties in quantity; all strong, healthy plants, ready Sept. 10th:

Mrs. Fisher, L. L. Lamborn, Puritan, Lizzie McGowan, White Dove, Angelus, Daybreak, Mrs. Ferd. Mangold, Thos. Cartledge, Emily Pierson, Wm. F. Dreer, Golden Gate, Peachblow Coronet, Cæsar. A number of other kinds in small lots. Correspondence solicited.

C. J. PENNOCK, The Pines, Kennett Square, Pa.

FIELD-GROWN CARNATIONS.

Strong, healthy plants: Mrs. Fisher, Garfield, Portia, Hinze's White, White Dove, L. L. Lamborn, Buttercup, Lizzie McGowan, and newer sorts.
VIOLETS—Marie Louise and Swanley White.
ROSES—Best forcing sorts, from 2½ and 3-in. pots.
SMILAX—Strong plants, from 2-in. pots.
Heinl's Monthly Pelargoniums. Low cash prices on above stock on application. I will take in exchange Double White Primroses, Ferns, Rex Begonias, Dracænas, and young Palms.

JOSEPH HEINL, Jacksonville, Ill.

CARNATION PLANTS

25,000 including all the best varieties. Strong, healthy, field-grown plants.

ADDRESS **N. S. GRIFFITH,**
Jackson Co. INDEPENDENCE, MO.

WANTED TO EXCHANGE.

Lizzie McGowan Carnations for Silver Spray, strong, field-grown plants—samples exchanged.
Also want 200 strong, field-grown variegated Vincas.

L. L. MAY & CO., St. Paul, Minn.

Phœnix rupicola.

This useful and beautiful Date Palm in EXTRA FINE PLANTS, growing in from 7 to 10-inch pots, from $3.50 to $7.50 each, according to size.

EDWIN LONSDALE, Wyndmoor,
STATION "G," PHILADELPHIA.
(Chestnut Hill P. O.)

FIELD-GROWN CARNATIONS

All the leading varieties. For prices write to

J. A. TRACHT & SON, Galion, Ohio.

FIELD GROWN CARNATIONS.

Fine healthy plants for **Winter Bloom.**

W. R. SHELMIRE,
CHESTER CO., AVONDALE, PA.
Send for Circular.

FIELD-GROWN CARNATIONS

Best new and standard varieties. Good stock and low prices.
Send for price list of 45 leading kinds. . . .

Geo. Hancock,
GRAND HAVEN, MICH.

CARNATIONS ALL THE LEADING VARIETIES.

R. T. LOMBARD,
Wayland, Mass.

CARNATIONS,

Grace Wilder, Tidal Wave and Silver Spray, **BOUVARDIAS,** Pres. Cleveland, Pres. Garfield and Bridal Bouquet, single white. Also Kentias, Arecas, Latania Borbonica, etc. Ready Sept. 1st.

WM. A. BOCK, N. Cambridge, Mass.

10,000 SURPLUS CARNATIONS

Nice, healthy plants from field.
Send list of your wants, as they must be sold.

BENJAMIN CONNELL,
West Grove, Pa.

CARNATIONS

Field-grown; best varieties. Write for prices.

	Per 100
SMILAX, from 2½-inch pots	$15 per 1000, $2.00
VIOLETS, Marie Louise	4.00
DBL. ALYSSUM, 2½-inch pots	2.00
" " GIANT, 2½-inch pots	4.00

DENVER CITY NURSERIES,
P. O. Box 201. SOUTH DENVER, COLO.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.



SELECT PANSY SEED

●●● Trade Pkts., 500 Seeds Each. ●●●

	Per Pkt.		Per Pkt.
Bugnot,	24c	Giant Five Spot,	45c
Cardinal,	40c	Giant Trimardeau Mix,	15c
Cassier's Giant,	24c	Gold Margined,	10c
Delicata,	10c	King of the Blacks,	10c
Dark Purple,	10c	Light Blue,	10c
Deep Indigo Blue,	10c	Lord Beaconsfield,	10c
Emperor William,	10c	Pelargoniflora,	12c
English Face,	12c	Prince Bismark,	12c
Fawn Color,	10c	Pure Yellow,	10c
Fire King,	24c	Quadricolor,	10c
Giant Black,	40c	Red Victoria,	30c
Giant Beaconsfield,	40c	Rose Marbled,	10c
Giant Pure Gold,	40c	Rosy Morn,	24c
Giant Striped,	45c	Striped and Mottled,	10c
Giant Purple,	40c	Snow Queen,	10c
Giant Three Spot,	40c	Violet Margined White,	10c

BARGAIN OFFER! To introduce my seeds to florists, I will send one trade packet each of **32 VARIETIES** total 16,000 seeds, (equal ¾ oz.) by mail, registered for **$5.00**

DON'T BUY MIXED PANSY SEEDS when you can purchase in separate colors at the same price and know just exactly what you are planting. **Give me a trial order. Satisfaction guaranteed.**

MISS C. H. LIPPINCOTT, Grower and Dealer in **Flower Seeds Exclusively,** 526 Sixth Street So., MINNEAPOLIS, MINN.

BEAUTY

and **BRIDESMAID**, fine 3-inch now ready for planting, $8.00 per 100. Also **Perle, Meteor, Cusin, Wootton, Soupert, Hoste, Sunset, Mermet** and **Bride**, $6 per 100. A splendid stock for late planters.

M. A. HUNT, Terre Haute, Ind.

ROSES

BRIDES, MERMETS, BON SILENE, NIPHETOS, CUSINS, WATTEVILLES AND JACQUEMINOTS.

25,000 fine plants in 3-inch pots, at a bargain. Will quote you prices on application. IF WANTED SPEAK QUICK.

ROSES

A. N. PIERSON, CROMWELL, CONN.

ROSES.

FINE STOCK FOR PLANTING.

PERLE,	SUNSET,
BRIDE,	MERMET,
METEOR,	ALBANY,
NIPHETOS,	HOSTE,

2½-in. $4 per 100; $30 per 1000.
3-inch, $6 per 100; $50 per 1000.

BROWN & CANFIELD,
. . . . SPRINGFIELD, ILL.

ROSES.

Fine healthy stock. Per 100 P. 1000

Perles, Mermets, The Bride, Sunset, Papa Gontier, Niphetos, Bon silene, La France, Souv. d'un Ami, Duchess of Albany, Mad. Cusin, Mad. de Watteville, from 3-in. pots, $8.00 $75.00
SMILAX, from 2½-inch pots..... 2.50 20.00

Lots of other Fine Stock.
Send for new list.

WOOD BROTHERS,
Fishkill, N. Y.

SMILAX.

	Per 100	Per 1000
From 2½-inch pots.....	$3.00	$25.00
" 2-inch pots.....	2.50	20.00
" Thumbs.....	2.00	15.00

Also a limited quantity of **PANDANUS UTILIS** and **LATANIA BORBONICA**, strong plants, from 4-inch pots. Price on application.

NATHAN SMITH & SON,
167 W. Maumee St., Adrian, Mich.

(ESTABLISHED 1850).

Edmund Van Goppenolle

NURSERYMAN,
MEIRELBEKE, NEAR GHENT, BELGIUM.

Great Culture of Aspidistra, Araucaria Excelsa. PER 100.
Azalea Indica (20,000 disposible), at $20, 25 and 30 PER 1000.
Begonia Tuberous, Best Sorts, 200,000 yearly, at $18
Dracæna, Ferns, Ficus Elastica, Gloxinia, - - $22
Hydrangea Paniculata, Laurus Nobilis (Sweet Bays), Many thousand pairs from all sizes, in Crowns and Pyramids, Lilium, Palms, enormous choice in all kinds at reduced prices. Rhododendron Hybr, Spiræa Japonica.
Price list on application; also to my agents.

C. C. ABEL & CO.,
P. O. BOX 920, NEW YORK.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

10,000 FIRST QUALITY FORCING ROSES

READY FOR IMMEDIATE PLANTING.

Fully equal to those sold last year, and perfectly healthy in every respect.
LA FRANCE, 3-inch pots, $9.00 per hundred; 4-inch pots, $12.00 per hundred.
MERMET, BON SILENE, MME. HOSTE, PERLE DES JARDINS, SAFRANO, MME. CUSIN,
3-inch pots, $7.00 per 100; 4-inch pots, $10.00 per 100.
SMILAX. Strong plants, 2½-inch pots, $2.50 per hundred; $20.00 per thousand.

J. L. DILLON, Bloomsburg, Pa.

FORCING ROSES.

Good stock—3 AND 4-INCH POTS.
AMERICAN BEAUTY, BRIDE, MERMET, BRIDESMAID, METEOR, PERLE, SUNSET, GONTIER, LA FRANCE.

A. S. MacBEAN, Lakewood, New Jersey.

Forcing Roses.

FINE STOCK, IN 3-INCH POTS.
Perle, Mermet, Bride, Meteor, Bennett, Albany and La France. Price, $5.00 per hundred.

GEO. W. MILLER. Hinsdale, Ill.

The Grand New Forcing Rose,

"American Belle."

Prices and full particulars on application.
John Burton, Chestnut Hill, Philadelphia

10,000 Gen. Jacqueminots.

Pot Grown on their own Roots.

From 5-in. Pots, 16 in. to 18 in. high, $8.00 per 100
From 4-in. Pots, 12 in. to 15 in. high, $6.00 per 100
ENGLISH IVIES, Pot Grown, one year old, 3 to 5 feet high, $5.00 per 100.
Cash with orders. When ordering give directions how to ship.

JOHN RECK, Bridgeport, Connecticut.

ROSES. ROSES. ROSES.

Large stock, best varieties, in fine condition for immediate planting, 3-in. $7 per 100; 4-in. $9.
Adiantum cuneatum, 3-inch, $5.00 per 100.
Double White Primulas, 2-inch, $6.00 per 100.
100 varieties best Old and New Chrysanthemums, 2½-inch pots, $3.00 per 100; 4-inch pots, $6.00 per 100.
General greenhouse stock, all sizes. Low prices.

Address **HENRY SMITH,**
130 Monroe St., Grand Rapids, Mich.

Association "Flora"

BOSKOOP, HOLLAND

NURSERIES.

Roses, Clematis, Shrubs, Azaleas, Palms, Herbaceous Plants, Bulbs, Etc.

Catalogue on Application.

P. OUWERKERK,
206 Cambridge Ave., JERSEY CITY, N. J.

Cyclamen Seeds.

KOCH'S SUPERB PRIZE CYCLAMEN,
THE FINEST STRAIN IN THE WORLD.

Bright dark red	1000 seeds $4.50
Rose of Marienthal	1000 seeds 4.50
White with carmine eye	1000 seeds 3.75
Mont Blanc, extra	1000 seeds 6.25

Cash with order.

LUDWIG KOCH, Wandsbek, Hamburg, Germany.

ROSES—SURPLUS STOCK.

HARD TIMES PRICES.

We must have the room these roses occupy, and will close them out at the very low price here named. Stock clean and healthy.

800 Perles	2½-in. 3 cents
200 Perles	2-inch, 2 "
200 Woottons	3-inch, 4 "
150 Woottons	2½-in. 3 "
75 White La France	3-inch, 4 "
250 Mme. Vusset	2-inch, 2 "
75 Brides	3-inch, 4 "
450 Meteors	3-inch, 4 "
150 Meteors	2½-in. 3 "
800 K. A. Victoria	2½-in. 10 "
2000 Testouts	2½-in. $9 per 100; $80 per 1000

Cash with order, 5 per cent. discount.

W. W. COLES,
Maple Hill Rose Farm, KOKOMO, IND.

Hybrid Perpetual Roses,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

ROSES.

Fine healthy plants. Just what you want for forcing, at the following low prices:

Bride	2½-in.	$4.00	per 100;	3-in.	$7.00 per 100
Mermet	"	4.00	"	"	7.00 "
Perle	"	4.00	"	"	7.00 "
Wootton	"	4.00	"	"	7.00 "
Beauty	"	5.00	"	"	8.00 "
Mme. Hoste	"	4.00	"	"	7.00 "
Bennett	"	4.00	"	"	7.00 "
Albany	"	4.00	"	"	7.00 "

NEWELL & KIDD, (Successors to H. Nielson),
2320 St. Joseph Ave., ST. JOSEPH, MO.

Roses and Smilax

2½ and 3-inch pots, strong plants.

WRITE FOR PRICES.

Kemble Floral Co.,
OSKALOOSA, IOWA.

SEND FOR A COPY
—OF OUR—
TRADE DIRECTORY

AMERICAN FLORIST CO., CHICAGO

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Boston.

Saturday, August 26, was aster day at Horticultural Hall. Each year shows some advance in quality and range of color, and this year is no exception, although the frequent heavy storms have been very disastrous to all such flowers. Pæony-flowered, Victoria, pompon, etc. were all well represented. First premium for fifty blooms including all classes was awarded to Wm. Patterson. Other exhibitors of fine asters were A. A. Hixon, C. H. Yates, F. B. Hayes, J. H. White, N. T. Kidder and Mary T. Goddard. There were also some fine exhibits of dahlias. J. Warren Clark's show of gladioli was, as usual, good and contained a number of meritorious seedlings. The attendance was very large. The next event of importance will be the great annual exhibition of plants and flowers, which takes place on Wednesday and Thursday, September 6 and 7.

There is very little activity in the flower trade these days. A depressing feature of the present condition of things is the large number of gardeners of more or less experience who are in quest of situations. In all of the prominent florists' and seedsmens' establishments there are several such calls every day.

St. Louis.

Matters here remain in about the same condition as reported last week. Trade has commenced to stir a little and shows some signs of reviving, but is still very dull. The dry spell is still with us, although we have had several light rains, not enough, however, to be of much benefit, and outdoor stuff is suffering as a result.

The grasshoppers are more than usually abundant and are difficult to manage. When they attack stock in the open ground the best remedy found here is to turn a coop of half grown chickens, or better still, ducks, into the garden; they will soon make grasshoppers scarce.

The Jordan Floral Co. have had great success with a batch of latania seed; almost every one seems to have grown; there must be at least 10,000 in sight; this is about the largest and best take of palm seeds ever seen here.

Mr. Barnes, who resides just west of the city, is building a greenhouse 80x20 feet. He expects to use 60 feet of it for roses and 20 feet for palms and other decorative plants. This will be a private place. R. F. T.

AMERICAN BEAUTY roses were lately received from J. B. Deamud & Co., of this city. They were very fine for this season, long stemmed and clothed fully with an abundance of clean foliage.

J. B. DEAMUD & CO.

Wholesale Florists, 45 Lake St. (FLORIST EXCHANGE), CHICAGO, ILL.

We have over 100,000 feet of glass devoted exclusively to Roses. We have ten houses 21x170, containing nearly 20,000 plants of American Beauty. The balance planted to Albany, La France, Meteor, Bridesmaid, Bride, Perle, Mermet, Hoste, Victoria and Wootton. All shipments make from stock **CUT FROM OUR OWN HOUSES**, which assures our customers **Strictly Fresh Flowers.**

We ask for a trial order and we will do our best to make you our friends.

FIRST-CLASS GOODS, STRICTLY FRESH, and at REASONABLE PRICES GUARANTEED.

THEY SAY That **ASPARAGUS PLUMOSUS NANUS**

at 50 cents a string, 8 to 12 feet in length, is the cheapest and best material for decorating, as it will stand longer and look better than any other green in this hot weather.

ORDER IN LARGE OR SMALL QUANTITIES, FROM

W. H. ELLIOTT, Brighton, Mass.

THE

Boston Co-Operative Flower Growers ASSOCIATION

will remove their Wholesale Cut Flower Market to No. 1 Park Street, and will be all ready for business September 6, 1893.

The rapidly increasing demand for stalls, spaces and advertising space in the market makes it necessary for us to obtain larger quarters. This new market contains three times the floor space and is more centrally located than the present one.

There will be an auction sale of the preferences of stalls in the market Tuesday, Sept. 5, 1893, at 9:30 a. m.

ABSTRACT FROM BY-LAWS.

SEC. 3. Any grower who has on becoming a member of this corporation and subsequently establishes a store for the purpose of disposing of his products by retailing or otherwise in the city of Boston or having any connection or interest with any such store, shall be required to withdraw from the corporation.

Advertisers wishing to renew their contracts for the coming year can do so at once. Application for advertising space should be sent to

W. W. TAILBY, Wellesley, Mass.

Siebrecht & Wadley,

ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.

Palms, ORCHIDS Roses,

and New Plants.

FRESH DRACAENA CANES NOW READY.

ORCHIDS.

The Finest Stock in the World.

SANDER'S, ST. ALBANS, ENGLAND.

Thirty minutes from London.

Our Mr. A Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

Established and Imported

ORCHIDS.

Ig. FORSTERMAN,

Newtown, N. Y.

$20 00 buys 250 well grown Chrysanthemums from 5-inch pots.

Carnations from open ground. 6 to 8 cts.
Cyclamens, large bulbs 8 to 10 cts.
Smilax, strong 3-inch pots 4 cts.
Niphetos Roses, 3½-inch pots 5 cts.
Violets, field-grown 6 cts.

McCREA & COLE, Battle Creek, Mich.

We are the People!

Who? **KOFFMAN,**

Where? **WALDEN, Orange Co., N. Y.**

What? **SMILAX**

25c. a string; 20c. a string by the hundred; 18c. a string by the thousand.

When? ALL THE YEAR AROUND.

Also Adiantum Cuneatum Fronds At $1.25 per 100.

And he pays the Express.

WHOLESALE FLORISTS

La Roche & Stahl

N. E. CORNER 13th & Chestnut Sts., PHILADELPHIA.

SAMUEL S. PENNOCK,

Wholesale Florist

REMOVED TO REAR OF 42 S. 16th ST.,

Philadelphia, Pa.

HARDY CUT FERNS

LAUREL FESTOONING, ETC.

The only place in the world where you can **Always** get them,

H. E. Hartford,

18 Chapman Place, BOSTON, MASS.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO.
Western Agent for the GREAT ANTIPEST.

Kennicott Bros. Co.
WHOLESALE CUT FLOWERS,
34 & 36 RANDOLPH STREET,
CHICAGO, ILL.
WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
126 Dearborn Street, CHICAGO.
Store Closes Nights 9 P. M.; Sunday 2 P. M.

NILES CENTER FLORAL CO.
Incorporated.
WHOLESALE GROWERS OF
CUT FLOWERS of ALL KINDS
and Dealers in FLORISTS' SUPPLIES.
CHAS. W. McKELLAR, Mgr.
In Chicago Cut Flower Exchange,
45 Lake St., CHICAGO.

M. OLSON,
Wholesale FLORIST,
66 WABASH AVENUE,
Telephone 4786. CHICAGO, ILL.

T. J. CORBREY,
Wholesale and Commission
FLORIST,
45 Lake St., CHICAGO, ILL.
In Chicago Cut Flower Exchange. . . .

A. G. PRINCE & CO.,
Wholesale and Commission
FLORISTS,
45 LAKE STREET,
In Chicago Cut Flower Exchange. CHICAGO.

DAN'L B. LONG,
COMMISSION • FLORIST,
495 Washington St., BUFFALO, N. Y.
FORCING BULBS, FLORISTS' SUPPLIES,
LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application.

H. L. SUNDERBRUCH,
WHOLESALE FLORIST
4TH & WALNUT STREETS,
Cincinnati, O.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

Wholesale Markets.

Cut Flowers.

NEW YORK, Aug. 29.	
Roses, Gontier	.50
" Meteor	1.00@ 5.00
" Beauty	5.00@15.00
" general assortment	1.00@ 3.00
Carnations	.50
Gladiolus	1.00@ 1.50
Valley	4.00
Auratum lilies	4.00
Asters, per bunch	.02@ .03
Smilax	10.00@12.00
Adiantums	1.00
BOSTON, Aug. 29.	
Roses	2.00@ 6.00
Carnations	.75@ 1.00
Asters	.05@ .25
Peas	.05
Gladioli	2.00@ 5.00
Lily of the valley	4.00
Stephanotis	1.00
Smilax	12.50
Asparagus plumosus	50.00
Adiantum	1.00
PHILADELPHIA, Aug. 29.	
Roses	2.00@ 3.00
" Beauties	15.00@20.00
" Meteors	6.00
Carnations	.50@ .75
Asters	.25@ .50
Sweet peas	.25@ .30
Gladiolus	5.00
Valley	4.00
Pond lilies	.50
White bollyhocks	.75@ 1.00
Balsams	.25@ .50
Adiantum	.75@ 1.00
Smilax	15.00
Asparagus	50.00
CHICAGO, Aug. 29.	
Roses, Perles, Guillot, Niphetos	2.00@ 3.00
" Albany, Bride	3.00@ 4.00
" Meteor	5.00
" Beauties	8.00@15.00
Carnations	.50@ 1.00
Sweet Peas	.12
Auratum	6.00@ 8.00
Gladiolus, longiflorum	4.00@ 6.00
Cornflowers	.20
Asters	.25@ .50
Hollyhocks, white	1.00
Valley	1.00@ 3.00
Dahlias	1.00
Smilax	12.00@15.00
Asparagus	60.00

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers AND Florists' Supplies
WHOLESALE.
67 Bromfield Street, BOSTON, MASS.

WHOLESALE FLORISTS,
JOBBERS IN . . . FLORISTS' SUPPLIES, FLORISTS' VASES.
METS, BRIDES, GONTIERS, CARNATIONS, ALWAYS ON HAND.
1 Music Hall Place, BOSTON, MASS.
HORTICULTURAL AUCTIONEERS. . .

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St., BOSTON, MASS.

W. ELLISON,
WHOLESALE
Cut Flowers AND Florists' Supplies
1402 PINE STEET,
St. Louis, Mo.

CUT SMILAX,
15 cts. per string till November 1st. Quality first-class.
Special attention to orders by wire.
J. E. BONSALL & SON, 308 Garfield Ave., Salem, O

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN AND SHIPPERS OF
Choice Flowers.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST,
32 West 30th Street, NEW YORK.
Roses Shipped to all Points. Price list on application.

JOHN YOUNG,
Commission Dealer in
CUT FLOWERS.
WHOLESALE.
46 WEST 30TH ST., NEW YORK.

HUNTER & PURDY,
WHOLESALE DEALERS IN
CUT FLOWERS
51 W. 30th St., NEW YORK.
FRANK D. HUNTER. JAMES PURDY, Formerly 112 W. 40th St

JAMES HART,
WHOLESALE FLORIST,
117 W. 30TH ST., NEW YORK.
The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHRS,
WHOLESALE
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.
Established 1879. . . .

MILLANG BROS.,
Wholesale Florists,
17 WEST 28TH STREET,
NEW YORK.
BRANCH: Cut Flower Exchange, 408 E. 34th Street.

MICHAEL A. HART,
Wholesale AND Commission Florist
113 WEST 30TH STREET,
. . . NEW YORK.
THE FINEST ROSES AND CARNATIONS.
Branch, at Cut Flower Exchange, 408 E. 34th St.

EDWARD C. HORAN,
34 W. 29th Street, NEW YORK,
Wholesale Florist
Careful Shipping to all parts of the country.
Price list on application.

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
WHOLESALE
FLORIST,
1122 PINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and trensurer, 116 Chambers street, New York. Next annual meeting second Tuesday in June, (will probably be held in Toronto.)

THE onion set crop in the vicinity of Chicago is estimated at from 40,000 to 45,000 bushels.

MR. E. B. CLARK, of Milford, Conn., estimates his damage from recent severe storm at over $1,000.

MR. BRASLAN confirms earlier reports of short French crops of beet, radish and carrot seeds, the drouth having been very severe.

VISITED CHICAGO: Chas. P. Braslan (returning from Europe), W. H. Carson, with H. A. Dreer, Max Wilhelmi, of F. Barteldes & Co.

MR. O'NEIL, the well known and genial representative of D. Landreth & Sons, reports good business during a recent trip of five weeks extending as far west as Salt Lake City. Mr. O'N. is devoted to the bicycle and finds it convenient in covering the generous distances about the World's Fair City.

DO YOU WANT an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our trade directory and reference book.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

COMPETITION DEFIED.

THRE. DELARUYE DE MULDER,
NURSERYMAN,
Ledeberg, nr. Ghent, Belgium,

Begs to offer all kinds of Palms, Azalea indica and mollis, Araucaria excelsa and glauca, Aspidistra, green and variegated, all kinds of Dracænas, green, striped and variegated, Begonia and Gloxinia tubers, Rhododendrons, Ficus elastica, green and variegated, Bay Trees, Laurustinus, etc., etc., of all sizes, at the lowest and cheapest market prices, and of an irreproachable culture.

Terms—Cash with order for all unknown purchasers; all packing free for orders with cash exceeding $50.00.

☞Apply for general trade list.

SEND for Catalogue of



JAPAN BULBS, SEEDS and SHRUBS, ARAUCARIAS, TREE FERNS, AUSTRALIAN PALM SEEDS, CALIFORIA BULBS and SEEDS to

H. H. BERGER & CO.,
Established 1878. SAN FRANCISCO, CAL.



TRY DREER'S
GARDEN SEEDS,
Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
HENRY A. DREER,
Philadelphia, Pa.

Mention American Florist.

Special Offer to American Trade.

LOUIS DE SMET,
NURSERYMEN, GHENT, BELGIUM,
OFFER AS SPECIALTIES:
Palms, Azalea indica and mollis, Araucaria excelsa (thousands), Bay Trees, Tuberous Begonias, Gloxiuias.
☞New Trade List on application. . . .

YOUNG PALMS.

TO MAKE ROOM WE OFFER A BARGAIN IN....
LATANIAS, 4-inch stuff, grown cold, well rooted, 3 to 5 character leaves, ready tor 5-inch pots, per dozen, $4.00; per 100, $30.00.
PHŒNIX RECLINATA, 5-inch, good value at doz. $5.00.
LILIUM CANDIDUM, large, plump, solid bulbs, per 100 $2.75; per 1000 $23.00.
FREESIAS, clean, large, healthy bulbs, first size $4.50; select $7.50 per 1000.
ROMANS, PAPER WHITE NARCISSUS, and a **FULL LINE** of all Fall Stock.
ROSE C. SOUPERT, 2½-inch, fine stuff, per 100 $3.50; 3½-inch, per 100 $8 00.

PANSY, VAUGHAN'S INTERNATIONAL MIXTURE,
Now Ready, is a World Beater.
NEW CROP SEED, per ⅛ oz. $1.50; oz. $10.00. Also separate colors in great assortment.

Vaughan's Seed Store,
148 W. Washington St., CHICAGO. 26 Barclay St., NEW YORK.

MAMMOTH BULBS
LILIUM HARRISII FOR EXHIBITION
purposes and for growing **SPECIMEN PLANTS.** Very choice and scarce.
PRICE, $25.00 per 100.
Also a fine lot of 5 to 7, and 9 to 11
PRICE, 5 to 7, $3.00 per 100; $25.00 per 1000.
PRICE, 9 to 11, $12.00 per 100.

F. R. PIERSON COMPANY,
Tarrytown-on-Hudson, N. Y.

DAFFODILS AND OTHER HARDY BULBS.
Plant now Narcissus **"Sir Watkin"** (introduced by us and certificated R. H. S. April 1884), the best of all the Daffodils. Commands the market. The popular favorite. Early, abundant, beautiful. Prices and all particulars on application.

DICKSONS NURSERIES, Chester, England.



Write for Wholesale List.
MICHEL PLANT AND BULB CO.,
ST. LOUIS, MO.

Mention American Florist.

ONION SEED
OUR SPECIALTY.
Grown from selected Onions and the purest stock in the United States.
1893 CROP 1893
Yellow Globe Danvers, Yellow Flat Danvers, Extra Early Red, Wethersfield. } Write for Prices.
COX SEED AND PLANT CO.
SAN FRANCISCO, CAL.

HULSEBOSCH BROS.,
BULB AND PLANT GROWERS,
OVERVEEN, near Haarlem, HOLLAND.

	Per 100	1000
Lilium Harrisii, 4 to 5-inch in circ.	$2.20	$19.00
" " 5 to 7-inch in circ.	3.00	24.00
" " 7 to 9-inch in circ.	5.25	47.00
" " 9 to 12-inch in circ.	11.00	100.00
Lilium Longiflorum 10 per cent dearer than Lilium Harrisii.		
Roman Hyacinths, extra selected	2.50	22.00
" " top roots	3.00	25.00
Narcis. Totus Albus, extra selected	1.00	7.50
" " " Grandiflor'm, ext. s'l'd	1.50	11.00

Full Wholesale Catalogue now ready. Address

A. HULSEBOSCH,
P. O. Box 3118. Warehouse 58 West Street,
NEW YORK CITY.

G. J. MOFFATT,
Manufacturer of
PAPER BAGS AND ENVELOPES
Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN, CONN.

BULBS! BULBS!
Lilium Auratum, Spec. Rubrum, Spec. Album, Longiflorum, etc. Order now.
Callas, Callas, at lowest rates: Fresh Cut Cycas leaves, prices and sizes to suit all. Fresh imported Cycas, lowest prices. Camellias, Pæonias, Japan Maples, and for general Japanese stock seeds. Remember we guarantee sound delivery, still goods travel at owner's risk. Apply to
F. GONZALEZ & CO.,
Nursery and Greenhouses, 303 to 312 Wayne Street,
SAN FRANCISCO, CAL.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

FLORISTS BULBS UP TO DATE

CONDITIONS. **We guarantee good, sound Bulbs of first quality or no sale,** and if not such, they can be returned at our expense, if **within five days after receipt by you.**

OUR TERMS. **We allow 4 months Credit, or 5 per cent. discount for cash in 10 days from date of bill. Bills under $25.00 are net.**

A HELPER. **We furnish free** to our customers buying bulbs of us to sell again, a nice retail catalogue with **their** name and address **alone** on it. Priced to give a good margin of profit and yet attract to **them** local orders.

YOU WANT **our Wholesale Price List before buying if you have not already had it, write for it.** Prompt answers to all letters.

WE ARE READY TO DELIVER

DUTCH HYACINTHS.	Per 100	Per 1000
Single or Double, Red, White and Blue, colors and shades separate. Your selection	$2.75	$25.00
SECOND SIZED NAMED VARIETIES (a bargain for florists). Equal quantities Red, White and Blue, our selection	4.00	35.00

Finest sorts for forcing and only those producing large spikes. Names and colors marked.

TULIPS.

SINGLE OR DOUBLE, fine Mixed Early sorts		1.00	7.50
" " Extra Selected sorts for forcing		1.50	12.00
" " Fine Mixed LATE sorts		1.50	12.00
SINGLE NAMED VARIETIES, best Scarlets mixed		1.75	14.00
" " " best Yellow mixed		2.25	20.00
" " " best Whites mixed		1.75	14.00
" " " best Pink mixed		2.25	20.00
" " " best Striped mixed		1.75	14.00

These mixtures of Named Tulips will be all true to colors specified, and embrace in each color some of the very finest sorts of that color.

We are prepared to quote **bottom prices** on all leading varieties of Florists Tulips by the 100, 1000 or 10,000 of a kind, such as **Yellow Prince, La Reine, Belle Alliance, Chrysolora, Keiserskroon, Pottebaker, etc.**

NARCISSUS, or DAFFODILS.

	Per 100	Per 1000
Von Sion (Double Yellow), First size	$1.75	$16.00
Von Sion " " Extra Selected	2.50	22.00
Double Roman (Constantinople)	1.25	10.00
Orange Phœnix (Double White and Orange)	2.00	17.50
Trumpet Major (True Single Daffodil)	2.00	17.50
Paper White, fine bulbs	1.00	7.50
" " grandiflora	1.25	10.00
ROMAN HYACINTHS. Pure White, 11x15	2.50	21.00
" " 11x12	2.00	16.00

LILIES.

Lilium Candidum. Magnificent Bulbs	2.50	20.00
" Harrisii. Choice, 5x7	2.75	25.00
" " Choice, 7x9	5.00	48.00
" " (now **scarce**), 9x11	12.00	
WHITE CALLA. First Size Roots	8.00	
Selected, Large Roots	10.00	

FREESIA.

First Size, our own selected	1.00	7.50
Extra Large, our own selected	1.25	10.00
French grown, very good	.75	6.00
Bermuda grown (long bulbs)	.50	4.00
ALLIUM NEAPOLITANUM. Fine large bulbs	.75	5.00
CROCUS. Fine Mixed, White, Blue, Striped Yellow and all colors.	.30	2.50
Named Varieties, Extra bulbs	.50	4.00
LILY OF VALLEY. Fine Berlin Pips (in cold storage)	1.50	12.00
ANEMONE FULGENS. Scarlet Wind Flower	1.50	12.00
SCILLA. Peruviana Alba	5.00	
GLADIOLUS. SHAKESPEARE, New Extra, Earliest Forcer—beautiful white, suffused carmine rose with large rose blotch, large flower of great substance	8.00	
ORNITHOGALUM. Arabicum, (Star of Bethlehem), large bulbs	1.50	12.00

WRITE FOR OUR PUBLICATIONS ON BULBS

MUSHROOM SPAWN. Finest English mill track, $9.00 per 100 pounds.

Z. DE FOREST ELY & Co.

Wholesale Bulb Growers and Importers.

1024 Market St., PHILADELPHIA, PA.

P. O. BOX 1176. TELEPHONE 3415.

REGISTERED CABLE ADDRESS: DE FOREST, PHILA.

Watson's Corner

"You in your small corner, me in mine."—Nursery Rhyme.

I told you in my last about my special brand of Mushroom Spawn, the

W. P.

brand, also about my low prices for same. My prices are so low I can't afford the space to say all I should here; but my circular on the subject may be had for the asking. 'T will advantage you to have it. Early fall plantings are profitable. Look into it.

PANSY SEED

you may think a belated topic, but note well that the new seed of the noted Foreign Strains are only now to hand. Try a dollar's worth of my "Prize International," it is very good in every way.

G. C. WATSON,

Wholesale Seedsman and Commission Merchant,

1025 Arch St, Phila., U. S. A.

HARRISII, ROMANS.

Our stock is unsurpassed, the bulbs are solid, thoroughly ripened and cured, well formed and up to measurement.

FREESIAS.

Select Stock. Per 100, 75 cents; per 1,000, $4.50.

PANSY SEED.

BARNARD'S FLORIST MIXTURE is popular wherever tried. Trade packet, 25 cts.; ⅛ ounce, $1.00.

W. W. Barnard & Co.

6 and 8 N. Clark Street, CHICAGO.

Mention American Florist.

Bulbs.

New List now ready; free to applicants. Address . . .

August Rölker & Sons,

P. O. Station E, NEW YORK.

NOW READY.

ROMANS,
HARRISII,
NARCISSUS,
P. W. GRANDIFLORA,
CANDIDUMS.

WISCONSIN FLOWER EXCHANGE,
468 Milwaukee St., Milwaukee, Wis.

Bulbs & Plants.

FOR CATALOGUES, ADDRESS

C. H. JOOSTEN,
IMPORTER,
3 COENTIES SLIP, NEW YORK

We Sell Mushroom Spawn.

LILIUM HARRISII AND DUTCH BULBS,
Special Low Prices to Florists and Dealers.

WEEBER & DON,
Seed Merchants and Growers,
114 Chambers St., New York.

When writing to any of the advertisers on this page please mention the American Florist.

Some of the Benefits of the Florists' Protective Association to the Retail Florist.

[Read by H. B. Beatty before the S. A. F. at St. Louis.]

Briefly the Florists' Protective Association is not only a direct benefit to every wholesale florist, but it is also a direct and positive benefit to every florist in the land. It has been said to me on several occasions by men engaged in the retail trade that they have in reality to pay the wholesale men for all the bad bills which they (the wholesale men) lose; and while I do not think that is so, at least in all cases, I will not take up your time in explaining in what way it is incorrect. But if it is so, as so many think, that you have those losses to pay, even in a greater or less degree, then would you not be willing to pay something each year to prevent that loss? The F. P. A. will prevent it, and do it effectually, if each member of the S. A. F. will only give it his support.

I am sorry to say there are many of you who know what it is to have a neighbor who is continually selling goods at less than living rates, thereby not only injuring your trade but the whole trade of your and adjacent cities; and in order to do this probably he is not paying his bills. Can you afford to allow such competition as this when you can so easily prevent it? The F. P. A. is after such dealers with a sharp stick.

We have also heard of cases where a party orders perishable goods shipped C. O. D., refuses to take them from the express company, but has a confederate who goes around to the express office, buys the flowers for the express charges and then turns them over to the store man who originally ordered them. Can you successfully compete with such parties? I think not. The F. P. A. can effectually prevent all such cases, and not only all such, but also prevent parties from running long accounts, selling the goods below cost to you and then going into bankruptcy, settling with their creditors and then repeating the same thing again at some future time.

In short the F. P. A., if given the proper support by the members of the Society of American Florists, will prove a balance wheel, which will enable all members of our craft to do a fair, pleasant business by compelling all poor pay, selling below cost men to get out, and stay out, of the trade. If that would not be a benefit, and a very great one, then I am no judge of business principles and effects.

Nowadays no man engaged in a wholesale business thinks of getting along without some means of securing information in regard to the character, habits and financial standing of prospective customers, and to every one engaged in supplying the wants of florists we now offer as complete a medium for such information as any in the country, and at so low a cost that if a man did no more than one hundred dollars worth of business in a year he could well afford to belong to our association.

E. G. HILL & CO.,

Wholesale Florists

RICHMOND, INDIANA.

Mention the American Florist when writing to advertisers on this page.

PANSIES.

THE BEST ARE THE CHEAPEST.

SIZE is a strong point in Pansies; when you combine size, color, substance and form they are pretty near right. By careful hybridization and selection I have accomplished this, and the Pansies I send out this Fall will be an agreeable surprise, even to former customers. If you buy Pansies I would be pleased to correspond with you; they will be offered for sale from Aug. 20th to Dec. 1st, at 75c. per 100 or $5 per 1000. Terms cash with order or C. O. D. No seed for sale.

L. B. 496. **ALBERT M. HERR, LANCASTER, PA.**

2,000

Asparagus Plumosus.

FOUR-INCH POTS,

$35 00 PER HUNDRED

James Weir's Son,

Bay Ridge, L. I.

SMILAX.

A large stock of strong well grown plants from 2½-inch pots, at $1.50 per 100; $12.00 per 1000.

PANSY PLANTS for fall. Choicest strains.

CYCLAMENS, both 1 and 2 year bulbs. Prices on application.

CLEMATIS, large flowering, for fall delivery. A very large stock and assortment. Write for prices I can suit you both on plants and prices.

F. A. BALLER, Bloomington, Ill.

HEADQUARTERS for WATER LILIES

SEEDS, TUBERS AND PLANTS, ready for shipment at all seasons and to all parts of the world. Don't fail to inspect our Columbian Exhibit at the World's Fair.

Illustrated Catalogue on application.

WM. TRICKER, DONGAN HILLS NEW YORK.

Mention American Florist.

CHOICE SWEET PEAS.

Being the largest growers of the above in the world the trade are invited to send a list of their requirements and secure low prices for Fall delivery.

SHERWOOD HALL NURSERY CO.

Menlo Park and San Francisco, Cal.

BEGONIAS, 4-inch pots, $1.00 per dozen.
CYPERUS ALTERNIFOLIUS, 3-in. pots, $1 doz.
EUCHARIS AMAZONICA, blooming size, $15.00 per hundred.
ABUTILONS, 4-inch, 75 cts. per dozen.
PILEA, 3-inch, 50 cts. per dozen.
ANTHERICUM VARIEGATUM, 3-in. $1 per doz.
SMILAX, per hundred strings, $9.00.

— CASH WITH ORDER. —

MRS. J. R. BEAN & CO., Mt. Pleasant, Iowa.

SMILAX.

First-class, from 2½-inch pots, $2.50 per 100; $20.00 per 1000. Sample free.

CYCLAMEN persicum giganteum, 3-in. pots, $6 a 100

Address **J. G. Burrow,** FISHKILL, N. Y.

MOSS.

CHEAP FOR WINTER. . . .

Fine Moss for Funeral Work and Orchids.

A. K. Savacool,

EAST STROUDSBURG, PA.

P. SEBIRE & SONS,

Nurserymen, USSY, Calvados, FRANCE.

A general assortment of Fruit Tree Stocks, such as Apple, Pear, Myrobolan Plum, Mahaleb and Mazzard Cherry, Angers Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, etc. The largest stock in the country. Prices very low. Packing secured. Catalogue free. Send for quotations before placing your order elsewhere. Agents for U. S. America and Canada.

C. C. ABEL & CO., P. O Box 920, New York.

THE ONLY

PANSIES WORTH RAISING

ARE THOSE WHICH SELL.

Everybody here knows that my Pansies are the admiration of all, and sell at sight.

— THIS IS TRUTH. —

If you want to keep in the front ranks, try my New Crop Seed at $1.00 per package of about 2,000 grains; 5 pkgs. or about ½ oz. for $1. Or Plants from seed bed at $1.00 per 100, or $5.00 per 1000.

CASH WITH ORDER.

Nobody will regret a trial.

CHRISTIAN SOLTAU,

199 Grant Ave., JERSEY CITY, N. J.

The seed may also be obtained of JAS. M. THORBURN & CO., 15 John St., N. Y.

PANSY SEED. PANSY

The Jennings strain of large flowering and Fancy Pansies, new crop now ready. 8 pounds of seed and over 500,000 plants were sold last season. This strain is popular, and why? Because Florists can depend on getting only First Class Stock. I shall sell no other. My aim is to supply the best Finest Mixed, all colors, trade pkt. 300 seeds 25c.; 1000 seeds 50c.; 2000 seeds $1.00; per ounce $6.00. Pure White (the finest) trade pkt 50c. and $1.00; Golden Yellow, dark eye, trade pkt. 50c. and $1.00. Send for price list for other varieties. Pansy Plants, ready September 1 to December 25, any size wanted, cold frame size 65c. per 100 by mail; $5.00 per 1000 by express; 5,000 $20. Large flowering plants $1.00 per 100; $8.00 per 1000. Cash with order.

ADDRESS **E. B. JENNINGS,**

WHOLESALE PANSY GROWER,

Lock box 254 SOUTHPORT, CONN.

When writing mention the AMERICAN FLORIST.

ROEMER'S SUPERB PRIZE PANSIES

The finest strain of Pansies in the World.

Introducer and Grower of all the leading Novelties.

Catalogue free on application.

FRED. ROEMER, SEED GROWER,

QUEDLINBURG, GERMANY.

Mention American Florist.

PANSIES.

During the season we shall have plants of best German strain of Pansies, at lowest prices.

BRAUER & RICHTER,

McCONNELSVILLE, OHIO.

PANSIES.

If you plant pansies, it will be to your advantage to plant at least one hundred of the beautiful strain I am offering for sale, as a trial. The flowers are very large and beautifully marked. Fine plants ready Sept. 1 and after, at

65c. per 100, and $5.00 per 1000.

Cash with order. Money Order Office, Lancaster, Pa.

ELMER J. WEAVER, Ronks, Lanc. Co., Pa.

EXTRA PANSY SEED.

Mammoth Sunbeam Strain.

A grand collection of giant flowering varieties, very large, of perfect form, and choice colors; carefully selected; receive high praise from my customers; better than ever; no finer strain offered anywhere. Every florist should sow of it. Trade pkt., 500 seeds, 25 cts.; 3 pkts. 60 cts.; 6 pkts. $1.00.

JOHN F. RUPP, Shiremanstown, Pa.

ESTABLISHED IN 1849.

G. BENARD, ORLEANS, FRANCE.

ROSES and YOUNG PLANTS a specialty.

Large stock of fine transplanted Ampelopsis Veitchii, at reduced prices according to quantity.

Catalogue sent free to applicants.

Agents for the United States.

C. RAOUX, 296 Pearl St., New York, N. Y.

E. BENARD, P. O. Box 620, San Diego, Cal.

Mention American Florist.

Cape Flowers, new crop in best white quality at $1.00 the lb.; 10 lb. lots, $9 net.

Cycas Leaves (Sago Palms), natural prepared, equal to fresh cut in appearance, from 28-in. upwards, at 40c., 45c., 50c., 60c., 75c. and $1.00 each, according to length.

Metal Designs, Wreaths, Crosses, Anchors, etc. in the latest French styles, from 50 cents net apiece upwards.

Baskets of all styles, Plain and Fancy, for School Commencements, Dinners, Receptions, Favors, etc.

Supplies of all kinds, such as Bouquet Papers, Wax Paper, Foil, Immortelles, Letters, Wire Designs, Funeral Sheaves, Doves, etc. For prices consult our

Trade Catalogue, mailed free.

August Rölker & Sons,
136 & 138 W. 24th St., P. O. Station E. **New York.**

H. BAYERSDORFER & CO.,
WHOLESALE
FLORISTS' SUPPLIES ONLY,
50 N. 4th Street,
PHILADELPHIA, PA.
Our new Catalogue is now out, free upon application.

MARSCHUETZ & CO.,
Florists' Supplies,
23 & 25 N. 4th St., PHILADELPHIA, PA.
Send for Catalogue.

ERNST KAUFMANN & CO.,
Florists' Supplies,
113 NORTH 4TH STREET,
PHILADELPHIA, PA.



CUTS!



Wood Engraving,
Zinc Etching,
Half-Tone,
Wax Engraving, Photo-Engraving,
Designing.

MANZ & CO.,
183 Monroe Street, CHICAGO. **ENGRAVERS.**
Mention American Florist.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

HOW TO GROW CUT FLOWERS.

A PRACTICAL TREATISE ON
THE CULTIVATION OF THE ROSE,
And Other Flowering Plants for Cut Flowers, sent to any address upon receipt of $2.00. M. A. HUNT, Terre Haute, Ind.

BOSTON FLORIST LETTER CO.,
13 Green Street, BOSTON, MASS.
Address all correspondence to 1 Music Hall Place.
Manufacture THE BEST LETTERS IN THE MARKET.
Sizes 1¼-inch and 2-inch, $2.00 per 100. Patent fastener with each letter.
With orders for 500 letters we give away a nicely stained and varnished box. See cut in next week's American Florist.
Our letter is handled by all the wholesalers in Boston.
AGENTS: Marschnetz & Co., 25 N. 4th St., Philadelphia, Pa.; A. Rolker & Sons, New York; F. E. McAllister, 22 Dey St., N. Y.; Ernst Kaufmann & Co., 113 North Fourth Street, Philadelphia; H. Bayersdorfer & Co., Philadelphia, Pa.; A. D. Perry & Co., 33 Warren Street, Syracuse, N. Y.; A. C. Kendal, 115 Ontario St., Cleveland, O.; E. H. Hunt, 79 Lake St., Chicago; Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.; H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.; T. W. Wood & Sons, 6th and Marshall Sts., Richmond, Va.; Jas. Vick's Sons, Rochester, N. Y.; Dan'l B. Long, Buffalo, N. Y.; C. A. Kuehn, St. Louis. F. C. Huntington & Co., Indianapolis, Ind.
J. A. Simmers, Toronto, Ont., Agt. for Canada.

WARNING.
A party in Williamsport, Pa., named Chas. E. Montgomery, is making and offering for sale letters which are an infringement upon our patent, and are also much inferior to those manufactured by us. We have notified them of suit unless they desist at once. Buy no letters except through our authorized agents.
BOSTON FLORIST LETTER CO.,
1 Music Hall Place, Boston, Mass.

LITTLE'S ANTIPEST.
— A —
Valuable Discovery of the 19th Century.
SILVER MEDAL AWARDED
— BY THE —
CALIFORNIA STATE FAIR OF 1890.
This preparation is a sure destroyer of the **Scale, Wooly Aphis** and **Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure** and **Cheap.** No fruit grower or florist should be without it.
Send for Circulars and Price List.
R. W. CARMAN, General Agent,
291 AMITY STREET,
FLUSHING, Queens, Co., N. Y.

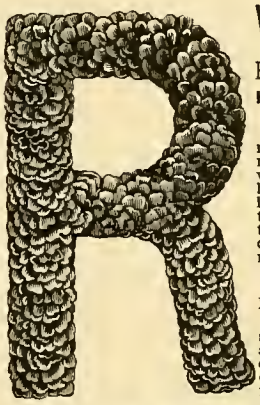
SMILAX AND ASPARAGUS
TRAINED ON GREEN
SILKALINE
Are in the best possible condition for the market. For particulars address
JOHN C. MEYER & CO.,
289 DEVONSHIRE ST., BOSTON, MASS.

TRADE MARKS. COPYRIGHTS.



SOLICITOR OF U. S. AND FOREIGN PATENTS.
Atlantic Building, Washington, D. C.
(Send sketch or model for free examination as to patentability.)

Please mention the American Florist every time you write any of the advertisers on this page.



W. C. KRICK'S
PATENT
Florists' Letters, Etc.
Highest Award wherever exhibited.
These Letters are made of the best immortelles, wired on wood or metal frames having holes drilled in them to insert toothpicks, by which to fasten them in the design. All infringements prosecuted.
2-inch Letters, $3 00 per 100.
Postage, 15c. per 100.
Before purchasing send for free sample and Catalogue and compare with any other letter in the market.
W. C. KRICK, 1287 Broadway, BROOKLYN, N. Y.
Agents:—J. C. VAUGHAN, Chicago, Ill.; H. BAYERSDORFER & CO., Phila., Pa.; N. STEFFENS, N. Y.; AUG. ROLKER & SONS, N. Y.; ED. S. SCHMID, Washington, D. C.; JAMES VICK'S SONS, Rochester N. Y.; T. W. WOOD & SONS, Richmond, Va.; J. A. SIMMERS, Toronto, Ont.
Mention American Florist



WHITE DOVES
FOR FLORISTS.
Largest and finest stock in the United States. Write for prices to
S. J. RUSSELL,
850 Montgomery St., Jersey City, N. J.
FOR SALE BY Messrs. F. E. McAllister, A. Hermann, N. Steffens and Reed & Keller, New York; W. C. Krick, Brooklyn, N. Y.; H. Bayersdorfer & Co., Ernst Kaufmann and Marschuetz & Co., Philadelphia, Pa.; C. Ribsam & Sons, Trenton, N. J.; J. M. McCullough's Sons and B. P. Critchell & Co., Cincinnati, O.; J. C. Vaughan, Chicago, Ill.; Wisconsin Flower Exchange and Currie Bros., Milwaukee, Wis.; C. A. Kuehn, S. Mount & Co., C. Young & Sons Co., Wm. Ellison and Jordan Floral Co., St. Louis, Mo.; Ed. S. Schmid, Washington, D. C.; G. W. Currey & Co. and Eckhardt & Co., Nashville, Tenn.; T. W. Wood & Sons, Richmond, Va.; U. J. Virgin, New Orleans, La.; D. B. Long, Buffalo, N. Y.; F. C. Huntington & Co., Indianapolis, Ind.; J. A. Simmers, Toronto, Ont.

CATALOGUE PRINTING.
ELECTROTYPING.
Done with expert ability for Florists Nurserymen, Seedsmen. Write to
J. Horace McFarland Co.,
HARRISBURG, PA.

TREES.
DO NOT let this opportunity pass. Closing the present fall the stock now remaining at a low wholesale rate, comprises extra large
Norway, Silver and Red Maples, Elms,
CATALPA, SMALLER NORWAY,
Sugar, Silver Sycamore, Red Maples, Elms, Catalpa, White Ash, American and European Lindens, 15 cents to $1.00 each.
50 VARS. SHRUBS, PEAR TREES AND CURRANTS.
Contracts made now. We will purchase for parties stock we are out of on a low commission.
P. H. FOSTER, Babylon, N. Y.

JULES DE COCK'S NURSERIES
GHENT, BELGIUM.
OFFER TO THE TRADE OF GOOD PLANTS.
10,000 Araucaria Excelsa; 100,000 Begonia Bulbs.
30,000 Azalea Indica; 20,000 Azalea Mollis.
100,000 Palms, different sorts, all sizes.
10,000 Laurel Bays, Standards and Pyramids.

Please mention the AMERICAN FLORIST every time you write to an advertiser.

Rochester, N. Y.

The return game of base ball between the Buffalo and Rochester florists took place here Tuesday afternoon and resulted in the score of 10 to 6 in favor of Rochester. That the teams are evenly matched is shown in the fact that the score at Buffalo was 9 to 6 against Rochester. Both were splendid games for amateurs. The stores closed at 1 p. m. and the greenhouses at noon, so it was a holiday for all.

The following men composed the nines:

BUFFALO.	POSITION.	ROCHESTER.
M. Bloy	Pitcher	Chas. Vick
B. Scott	Catcher	Ed. Vick
—— Krombrich	1st base	R. Bennett
E. Giddings	2d base	A. H. Salter
G. Asmus	3d base	R. Fletcher
W. Scott, Jr.	Short stop	R. G. Salter
J. H. Rebstock	Right field	M. McCue
Wm. Scott	Center field	M. Joslyn
—— Rebstock	Left field	F. R. Schlegel

SALTER BROS.

GREENVILLE, O.—James Frost, proprietor of the Greenville Greenhouses, is rebuilding one-third of his plant into larger houses and using 16x24 glass butted and fastened by a cap. This method improves the appearance of the houses wonderfully.

Flower Pots AND Pedestals

Over a hundred varieties and designs, all sizes and colors, at prices from 50 cents to $100.00 apiece.

A LARGE ASSORTMENT OF

BOHEMIAN AND FRENCH GLASS BOUQUET-HOLDERS.

HYACINTH GLASSES.

Send for Illustrated Price List.

HINRICHS & CO.

Importers of China and Glassware, Pottery, Lamps, Etc.,

29, 31, 33 Park Place, NEW YORK.



SCOLLAY'S

IMPROVED

PUTTY BULB,

For Glazing Sash, Etc.

— ALSO THE —

Patent Plant Sprinkler

For sale by your Seedsman, or sent, postpaid, for $1.00.

JOHN A. SCOLLAY,

74 & 70 Myrtle Ave.,

BROOKLYN, N. Y.

Send Stamp for Catalogue.

IMPROVED GLAZING.

Zinc Joints for butting glass without laps. No leakage. No sliding of glass. Practically air tight. Keeps out cold winds, thereby saving fuel. No laps, saves enough glass to pay for the zincs. No breakage of glass on account of frost or ice. Some of the largest growers in the country are using "Gasser's Patent Zinc Joints" with entire satisfaction. Write for sample and price list.

J. M. GASSER, FLORIST,

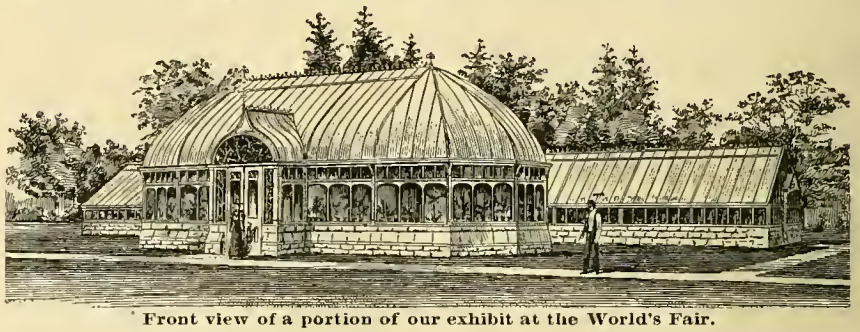
101 Euclid Ave., CLEVELAND, O.

LORD & BURNHAM CO.

Horticultural Architects and Builders,

STEAM AND HOT WATER HEATING ENGINEERS.

☞ Plans and estimates furnished on application.



Front view of a portion of our exhibit at the World's Fair.

. . . SEND FOUR CENTS POSTAGE FOR ILLUSTRATED CATALOGUE. . . .

LORD & BURNHAM CO., Irvington-on-Hudson, N. Y.

SPECIAL -$10.00- OFFER,

FOR A LIMITED PERIOD ONLY.

To introduce our specialties we make this special offer of

1 STOTT DISTRIBUTER.

1 STOTT SPRAYER (The best made.)

20 lbs. KILLMRIGHT (Non-poisonous, but Death to Insects.)

FOR $10 CASH.

Will clean your Greenhouses and out-door plants of Aphis, Mealy Bug, Caterpillar and other insects. Order through your seedsman, or direct of

ENDORSED BY LEADING FLORISTS EVERYWHERE.

WITH PROPER USE, SATISFACTION GUARANTEED.

THE STOTT GARDEN IMPL'T CO.,

136 Liberty Street,

NEW YORK.

TO STOTT GARDEN IMP'T CO., 136 Liberty Street, New York.

Dear Sirs:—We have been using your **Distributer and Killmright** for six months and consider it a good thing. It is the best thing ever got out. For roses it is particularly good. It cures a rose plant of black spot and mildew and keeps them in a healthy and growing condition. We never use tobacco smoke now. It will certainly ultimately kill the mealy bug. We will keep it right along and want nothing else.

Signed, BOLANZ BROS., Akron, O.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO,

NATURAL GAS MADE GLASS

FOR GREENHOUSES.

Write for latest prices.

FLORISTS' HOSE,

Made by E. W. Holt, member of the Society of American Florists.

Goodyear Rubber Store,

2 W. 14TH ST. NEW YORK.

Always mention the American Florist when writing to advertisers.

THE PERFECT DRAINAGE

BENCH TILE

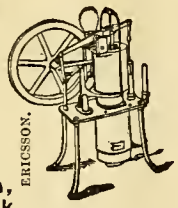
For circulars, etc., address

W. P. Wight, Upland Green Houses,

Send your business card. MADISON, N. J.

Always mention the American Florist when writing to advertisers.

WATER
For Your GREEN HOUSE, ROSE HOUSE, NURSERY,
Conservatory, Lawn, House, Garden, Stock or any other purpose.
Send for Illustrated Catalogue
OF THE
DE LAMATER-RIDER AND DE LAMATER-ERICSSON
PUMPING ENGINE.

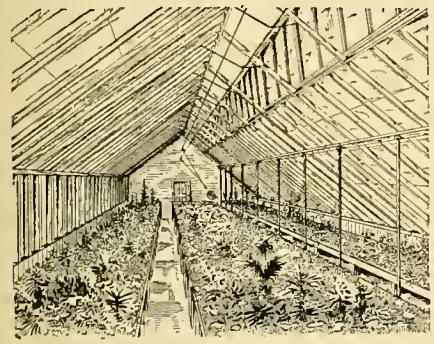


HOT-AIR PUMPING ENGINE.



Their operation is so simple and safe that a child can run them. They will pump water from shallow streams or any kind of well. They can be arranged for any kind of fuel. Capacity 1,500 to 30,000 gallons of water a day, according to size.
The De Lamater Iron Works,
87 South Fifth Avenue,
NEW YORK, N. Y.

THE CHAMPION

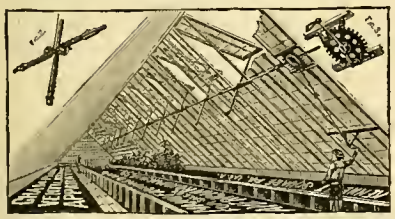


Automatic Ventilator.

The cheapest, easiest to operate, and by far the best machine in the market. Don't buy a Ventilator until you have seen my illustrated descriptive circular, which will be sent you free, giving prices, etc. Also Champion Soil Pulverizer and Sifter.

Address, **E. E. WOLF,**
Box 114. SPRINGFIELD, O.
Mention American Florist

UNIFORM VENTILATION
is something you cannot secure with all ventilating appliances. It is assured when you use

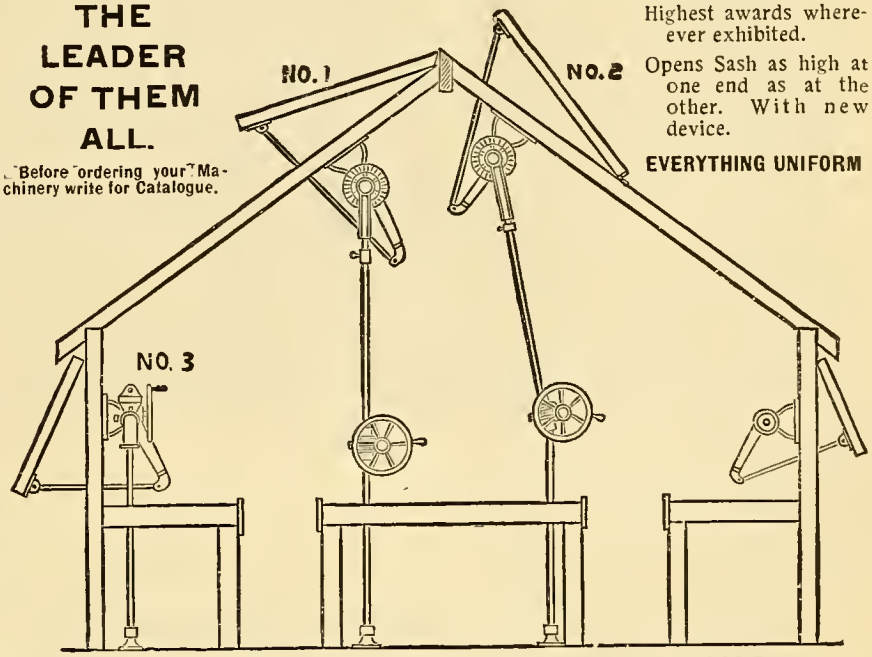


The Champion Ventilating Apparatus
SIMPLE, DURABLE, EFFICIENT, CHEAP.
☞Circular is yours for the asking. Address
AMERICAN ROAD MACHINE CO.,
. . . . Kennett Square, Pa.

EVANS' IMPROVED
CHALLENGE VENTILATING APPARATUS
Write for Illustrated Catalogue.
QUAKER CITY MACHINE WORKS, Richmond, Ind.

FLORAL DESIGNS
The Cut Flower Worker's Friend. Fine book of 160 pages. Send **$3.50** for it, to
J. HORACE McFARLAND, Harrisburg, Pa.

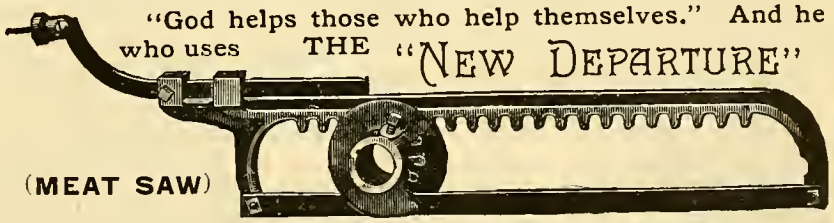
STANDARD VENTILATING MACHINERY,
THE LEADER OF THEM ALL.
Before ordering your Machinery write for Catalogue.



Highest awards wherever exhibited.
Opens Sash as high at one end as at the other. With new device.
EVERYTHING UNIFORM

E. HIPPARD, YOUNGSTOWN, OHIO.

"God helps those who help themselves." And he who uses THE "NEW DEPARTURE"



(MEAT SAW)

VENTILATING APPLIANCE
helps himself and those who help him in his labors, and is therefore doubly blessed. Send for price and description.

J. D. CARMODY, Evansville, Ind.
Or call and see the man and machine at his greenhouse office, located on the lawn west front of Horticultural Building, World's Fair grounds, Chicago, Ill.

TOBACCO STEMS AND DUST.
STEMS—In 100 lb. bales, $1.00. In 500 lb. bales, $4.00. By the ton, $10.00.
TOBACCO DUST—A most valuable insecticide for Violets, Roses, Chrysanthemums, etc; also for fumigating; in 100 lb. lots, $2.00, f. o. b.
Pye & Mueller,
P. O. Box 1066. KINGSTON, N. Y.

OUR Sash Lifter AND Hinges
will do the work and cost you less than any other. Send your name and address and we will mail you description and price.
BAY STATE HARDWARE CO.
272 Freeport Street, BOSTON, MASS.

Send orders for . . .
CLEAR CYPRESS
Greenhouse Material
from bottom of gutter up.
Correspondence solicited. Estimates cheerfully furnished.
LYMAN FELHEIM, ERIE, PA.

J. N. STRUCK & BRO.
Manufacturers of
• CYPRESS •
Greenhouse Material,
LOUISVILLE, KY.
Mention American Florist.

STANDARD HOSE MENDER.



The only Mender using ordinary galvanized wire No. 14, instead of expensive bands. Any person can handle it with perfect ease. Thousands in use and all testify to its Wonderful Merits.
Sample Box, by Mail, 50 cts.
E. HIPPARD, Youngstown, Ohio.
Mention American Florist.

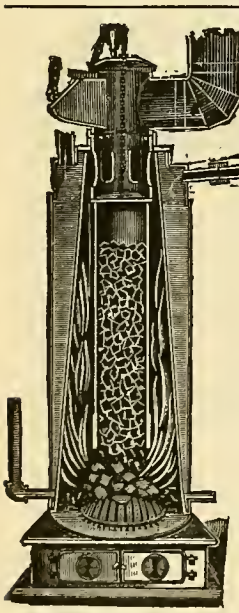
When writing to any of the advertisers on this page please mention the American Florist.

Those Dear Children.

I always imagined that subjects of wailing and gnashing of teeth were not acceptable to our valuable journal, especially where they came from the lower five, but your comments on "working hand's" tale of woe greatly encouraged me to unfold a tale of woe of my own. It will likely be the only hint for a change of front that will receive attention and bring relief to many who are so unfortunately situated. One fact that all employers who board their hands want to bear in mind is that they do not board us for nothing, we pay for it in work, which is equivalent to cash, and that we want to enjoy our meals, if the quality and quantity will permit, and not be compelled to share the table with one or more illbehaved and in many instances dirty children. I can only wonder at the ignorance of parents who give a child the liberty of the earth, and who make foolish attempts to reason with one too young to be capable of reasoning.

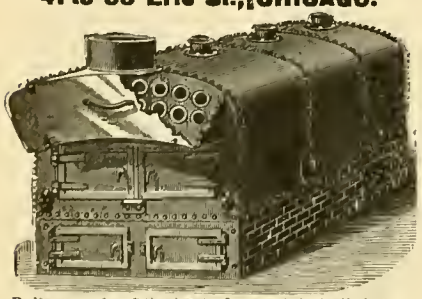
Why don't I complain or leave some may ask. To complain, or even hint, to a mother that her child is not a sweet little darling is a pretty dangerous venture. Leave? What guarantee have I that it is not jumping out of the frying pan into the fire? P. D. G.

THE Florists' International Telegraph Delivery Association now has 58 members in 58 different cities, and its business the past year was very largely in excess of the year before.



THE WILKS HEATER,
FOR HEATING
GREENHOUSES, STORES, DWELLINGS, ETC.
Manufactured by THE S. WILKS MF'G CO. 123 S. Clinton St., CHICAGO, ILL.
SEND FOR CATALOGUE.

KROESCHELL BROS.
IMPROVED
Greenhouse Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around front, sides and back). Write for information.



Mention American Florist.

THE "LOCKLAND"
Sash Bars
ARE ALWAYS SATISFACTORY.
This cut represents our improved Clipper Bar for Butted Glass roof—putty to be used under glass only.
GUTTER MATERIAL, RIDGES, SASH, ETC.
The finest CLEAR CYPRESS used.
Write for circulars and estimates.
LOCKLAND LUMBER CO.
Lockland, O.

"Standard" Flower Pots.
As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address
The Whilldin Pottery Company,
BRANCH WAREHOUSES: 713, 715, 717 & 719 Wharton St., Philadelphia, Pa.
Randolph Ave. and Union St., Jersey City, N. J.
Jackson Ave. and Pearson St., Long Island City, L. I.

STANDARD FLOWER POTS
Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.
A. H. HEWS & CO., N. Cambridge, Mass.

Standard Flower Pots.
We wish to notify the trade that this summer we have made great improvements in machinery and have also discovered a better clay, so that we are now manufacturing FLOWER POTS that can't be beat. We have the assurance of a host of our customers, that our make are the best in the market. Bear in mind that freight rates are very low from this point, and we claim that our way of packing saves you freight charges. Send for circulars, or we will send you figures on any quantity you want.
SIPFLE, DOPFFEL & CO., SYRACUSE, N. Y.

STANDARD FLOWER POTS.
OLD RELIABLE MAKE OF
ELVERSON, SHERWOOD & BARKER.
Write for Catalogue and Price List.
PITTSBURGH CLAY MFG. CO. New Brighton, Pa.

STANDARD FLOWER POTS
Our new **Pottery,** new **Machinery,** the very **best Clay** in the **Country,** and our new **Patent Kilns,** all combined, make the **best Standard Pot in the market.** Send for price list.
PARMENTER MF'G COMPANY,
GEORGE MESSINGER, Manager. East Brookfield, Mass.

STANDARD FLOWER POTS.
Price List.

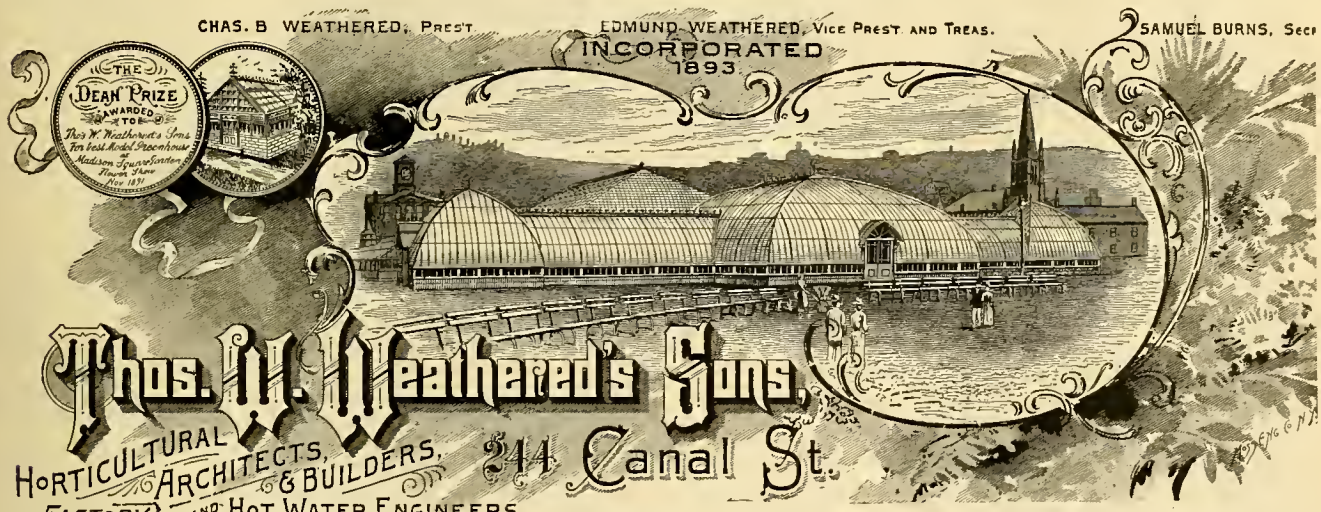
2 -inch,	Per 1000	$3.25	7-inch,	Per 100	$ 3.50
2½-inch,	"	3.50	8-inch,	"	5.00
2½-inch,	"	4.00	9-inch,	"	7.50
3 -inch,	"	5.00	10-inch,	"	10.00
3½-inch,	"	7.25	11-inch,	"	15.00
4 -inch,	"	9.00	12-inch,	"	20.00
5 -inch,	"	13.80	14-inch,	"	40.00
6 -inch,	"	22.00	16-inch,	"	75.00

Terms cash, f. o. b. Address
HILFINGER BROS. POTTERY, Fort Edward, N. Y.

GURNEY Hot-Water Heaters FOR Greenhouses.
Send for a copy of our book "How best to heat our houses."
GURNEY HOT-WATER HEATER CO.
163 FRANKLIN ST., BOSTON.
Branch Office: 59 Wabash Avenue, Chicago, Illinois.
Selling Agencies: Johnson & Co., 71 John St., New York City. J. C. F. Trachsel, 246 Arch St., Philadelphia

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Mention the American Florist when writing to advertisers on this page.



Thos. W. Weathered's Sons,

HORTICULTURAL ARCHITECTS, & BUILDERS, AND HOT WATER ENGINEERS.

FACTORY, 196 TO 240 Orient Ave. Jersey City. N.J.

244 Canal St. NEW YORK.

CHICAGO OFFICE: 619-620 Manhattan Bldg.

Greenhouse Pipe and Fittings





Large quantities of our Pipe are in use in Greenhouses throughout the West, to any of which we refer as to its excellent quality.

Pipe can be easily put together by any one, very little instruction being needed.

GET THE BEST!

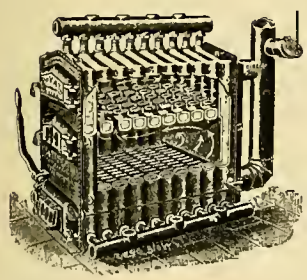
Hot-Water Heating, in its Economy and Superiority, will repay in a few seasons its cost.

Mention American Florist.

L. WOLFF MFG. CO., 93 to 117 W. Lake Street, CHICAGO.

WRITE FOR ILLUSTRATED CIRCULAR.

ROYAL HEATERS
TRADE MARK
UTICA, N.Y.



D. H. ROBERTS,

159 and 161 S. Fifth Avenue, - NEW YORK,

NATURAL GAS MADE GLASS,

FOR ROSE HOUSES, CONSERVATORIES, ETC., ETC.

☞ Look at our WORLD'S FAIR EXHIBIT in Horticultural Building.

FRENCH GLASS

For CONSERVATORIES, ROSE HOUSES, Etc. Etc.

VANHORNE, GRIFFEN & CO.,

Importers of PLATE and WINDOW GLASS. Manufacturers of BENT GLASS and FRENCH MIRRORS.

131-133-135-137 FRANKLIN STREET, NEW YORK.

Note—Imported Glass is used in the best grade of Greenhouse building.

HART & CROUSE,

UTICA, N. Y.



Pat. 1882, '85, '86, '88, '90, '91.

FOR WATER, AIR, STEAM, ACIDS, OILS, LIQUORS, GAS, SUCTION,

And for any and every purpose for which a hose can be applied.

Sizes, ⅛-Inch to 42 inches diameter.

The making, vending or use of any Serviceable Armored Wire Bound Hose not of our manufacture is an infringement on one or more of our Patents. The rights secured to us render each individual dealer or user responsible for such unlawful use with all the consequences thereof. For prices and discounts address WATERBURY RUBBER CO., Sole M'f'rs and Owners of all the *Sphincter Grip Armored Hose Patents*, 49 Warren Street, New York.

J. C. VAUGHAN, Agent, CHICAGO.

VICTOR SPRAY PUMP.

The most wonderful pump ever invented. Requires no foot-rest or support. Send for prices.

HENION & HUBBELL, 55 N. Clinton St., Chicago, Ill.

GLASS. ROCK BOTTOM PRICES. Send for Estimate. Satisfaction Guaranteed.

REED GLASS CO.,

65 Warren St., and 46, 48 & 50 College Place, New York City.

HAIL LOCK THE DOOR BEFORE THE HORSE IS STOLEN. DO IT NOW.

JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

Always mention the AMERCAN FLORIST when writing to advertisers.

Index to Advertisers.

Abel C C & Co.....89 94
Adv. Rates, etc..... 90
American Boiler Co....100
American Road Mach Co..... 97
Baller F A..... 94
Barnard W W & Co.... 93
Bay State Hdw Co..... 97
Bayersdorfer H & Co.. 95
Bean Mrs J P & Co..... 94
Benard G..... 94
Berger H H & Co..... 92
Bock Wm A..... 88
Bonsall Jos E & Son ... 91
Boston Letter Co 95
Brauer & Richter..... 94
Brown & Canfield..... 89
Burns & Raynor..... 91
Burrow J G..... 94
Burton John..... 89
Carman R W..... 95
Carmody J D..... 97
Chandlee Geo H 95
Coles W W..... 89
Connell Benj..... 88
Corbrey T J..... 91
Cox Seed & Plant Co... 92
Deamud J B & Co..... 90
De Cock Jules..... 95
De Lamater Iron Wks. 97
De Mulder Th D..... 92
Denver City Nurseries. 88
De Smet Louis..... 92
Dickson's Nurseries... 92
Dillon J L..... 89
Dreer H A..... 92
Elliott W H..... 90
Ellison Wm..... 91
Ely Z De Forest & Co.. 93
Felheim Lyman..... 97
Forstermann I..... 90
Foster P H..... 95
Gasser J M 96
Gonzalez & Co..... 92
Goodyear Rubber Store 96
Gordon H S..... 87
Griffith N S..... 88
Gurney Heater Co..... 98
Hall Ass'n..... 99
Hancock Geo 88
Hart James..... 91
Hart Michael A..... 94
Hart & Crouse..... 99
Hartford H E..... 90
Heinl Jos..... 88
Henion & Hubbell..... 99
Herr Albert M..... 94
Hews A H & Co..... 98
Hilfinger Bros..... 98
Hill E G & Co..... 94
Hinrichs & Co..... 96
Hippard E..... 97
Hitchings & Co.....100
Hooker H M Co..... 96
Horan Edw C..... 91
Hulsebosch Bros..... 92
Hunt E H..... 91
Hunt M A.....89 95
Hunter & Purdy..... 91
Jennings E B..... 94
Joosten C H..... 93
Kaufmann Ernst & Co. 95
Kemble Floral Co 89
Kennicott Bros..... 91
Koch Ludwig..... 89
Koffman E..... 90
Krick W C..... 95
Kroeschell Bros 98
Kuehn C A..... 91
La Roche & Stahl..... 90
Lehnig & Winnefeld... 89
Lippincott Miss C H... 88
Lockland Lumber Co... 98
Lombard R T..... 88
Long Dan'l B..... 91
Lonsdale Edwin..... 88
Lord & Burnham Co... 96
McCarthy N F & Co.... 91
McCrea & Cole..... 90
McFarland J H..... 97
McFarland J H Co..... 95
MacBean A S..... 89
Manz J & Co..... 95
Marschuetz & Co..... 95
May L L & Co..... 88
Meyer John C & Co ... 95
Michel Plant & Bulb Co 92
Millang Bros..... 91
Miller Geo W..... 89
Moffatt G J..... 92
Moninger Jno C 100
Newell & Kidd..... 89
Niles Centre Floral Co. 91
Olson M 91
Ouwerkerk P..... 89
Parmenter Mfg Co..... 98
Peck & Sutherland..... 91
Pennock C J..... 88
Pennock Sam'l S..... 90
Pierson A N..... 89
Pierson F R Co..... 92
Pittsburg Clay Mfg Co. 98
Prince A G & Co..... 91
Pye & Mueller..... 97
Quaker City Mach Co.. 97
Randall A L 91
Raoux C..... 94
Reck John 89
Reed Glass Co..... 99
Reed & Keller..... 95
Roberts D H..... 99
Roehrs Theo..... 91
Roemer Fred..... 91
Rolker A & Sons.....93 95
Rupp John F..... 94
Russell S J..... 95
Sander & Co 90
Savacool A K..... 94
Scollay John A. 96
Sehlre P & Sons 94
Shelmire W R..... 88
Sheridan W F..... 91
Sherwood Hall Nur Co. 94
Siebrecht & Wadley.... 90
Siplie, Dopffel & Co.... 98
Situations, wants..... 87
Smith Henry..... 89
Smith Nathan & Son... 89
Soltau Chr..... 94
Spooner Wm H..... 89
Stott Garden Imp Co... 96
Struck J N & Bro..... 97
Sunderbruch H L..... 91
Tullby W W..... 90
Tracht J A & Son..... 88
Tricker Wm..... 94
Van Coppenolle Ed.... 89
Van Horne Griffen & Co 99
Vaughan J C..... 92
Waterbury Rubber Co. 99
Watson G C..... 93
Weathered's Sons T W. 99
Weaver Elmer J..... 94
Weeber & Don..... 93
Weir's Sons Jas..... 94
Welch Bros..... 91
Whilldin Pot Co..... 98
Wight W P..... 96
Wilks S Mfg Co..... 98
Winter N D..... 87
Wisconsin Flower Ex.. 93
Wolf E E 97
Wolff L Mfg Co..... 99

GoodelHH
Mass Agri Col 15[illegible]

We request subscribers to make remittance by draft or money order when renewing subscriptions, and to keep a record of the numbers and dates of same. This is to guard against losses in the mails.

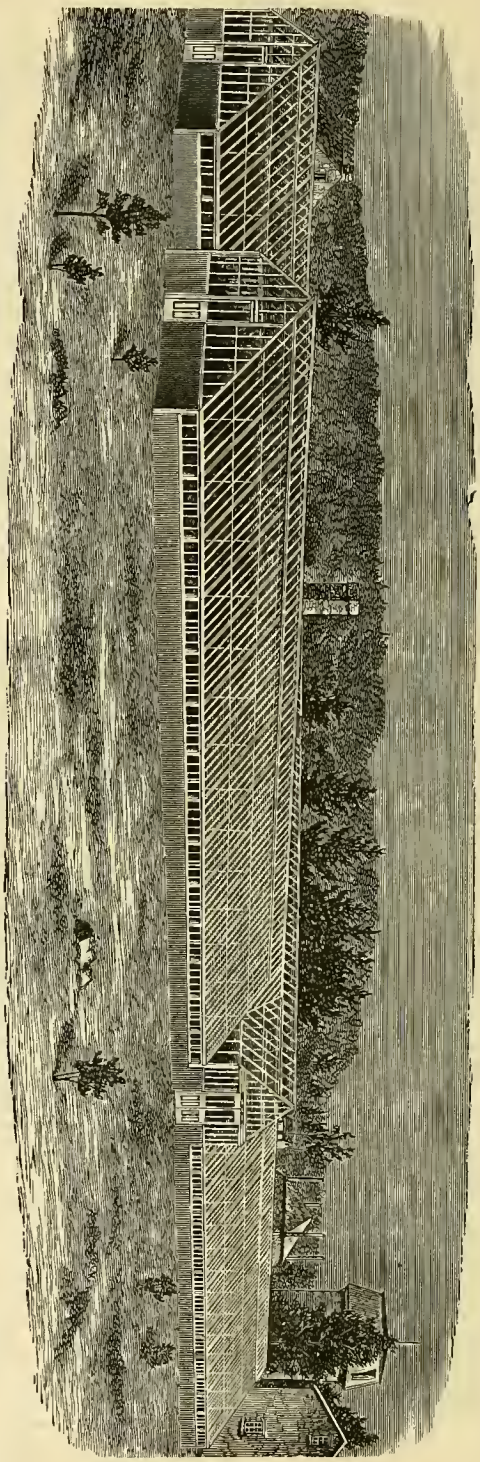
CYPRESS GREEN HOUSE MATERIAL

CLEAR CYPRESS SASH BARS

HOT BED AND VENTILATING SASH

JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

HITCHINGS & CO.
ESTABLISHED 1844.
GREENHOUSE HEATING AND VENTILATING,
HORTICULTURAL ARCHITECTURE AND BUILDING.



COMMERCIAL ROSE AND GREENHOUSES, CONSERVATORIES, PALM HOUSES, ETC., CONSTRUCTED WITH POSTS, RAFTERS, PURLINS, GUTTERS, SILLS, COLUMNS AND BRACKETS, ALL OF IRON; AND GLAZING BARS, VENTILATING SASH AND SIDING OF WOOD. ERECTED COMPLETE, OR THE STRUCTURAL IRON WORK SHIPPED READY FOR ERECTION WITH PLANS, DETAILS AND FULL INSTRUCTIONS TO ENABLE LOCAL MECHANICS TO COMPLETE THE SAME. —— IRON BENCH FRAMES FOR SLATE OR WOOD TOPS. (——

SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUES.

HITCHINGS & CO., 233 Mercer Street, NEW YORK.

STEAM · AND · HOT · WATER · HEATERS
FOR
GREENHOUSE HEATING
156
DIFFERENT SIZES.
American Boiler Company.

BOSTON, 195 Ft. Hill Square. NEW YORK, 94 Center St. CHICAGO, 34-36 Dearborn St. DENVER, Mining Exchange Bldg. SAN FRANCISCO. 80 Crocker Bldg.

When writing to any of the advertisers on this page please mention the American Florist.

You can never invest $2 to better advantage than in a copy of our trade directory and reference book.

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. IX **CHICAGO AND NEW YORK, SEPTEMBER 7, 1893.** **No. 275**

THE AMERICAN FLORIST

Copyright 1893, by American Florist Company. Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.
322 Dearborn Street, Chicago.

Subscription, $1.00 a year. To Europe, $2.00.

Address all communications to

AMERICAN FLORIST COMPANY,
P. O. Drawer 164, CHICAGO.
Eastern Office: 67 Bromfield St., Boston.

SOCIETY OF AMERICAN FLORISTS.

WM. R. SMITH Washington, D. C., president; PROF. WM. TRELEASE, St. Louis, Mo., vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass, secretary; M. A. HUNT, Terre Haute, Ind., treasurer.

The new officers, to be installed Jan. 1, 1894, are: J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; secretary and treasurer the same as for 1893. The next annual meeting will be held at Atlantic City, N. J., August, 1894.

CONTENTS.

Mignonette as I grow it 101
Vases (3 illns) 102
Notes on propagation 102
Carnations—Seasonable hints 102
—Chester County Carnation Society 103
Fresh information regarding sweet peas 103
The World's Fair 104
World's Fair impressions 104
The American Rose Society 105
Miscellaneous seasonable hints 105
New York 106
Philadelphia 106
Baltimore 107
St. Louis 107
The model farm 107
Fire insurance 110
Propagating the clematis 110
The seed trade 112
News notes 112
Toronto 114
Worcester, Mass 114
Boston 116
Chicago 118
Obituary—Wm. Thompson, Jr. 118

Recent Legal Decisions.

Burden of Proof where Perishable Freight is Damaged.

When goods, though perishable or liable to rapidly deteriorate from internal causes, are damaged while in the hands of the carrier the burden of proof is upon him to show either that he was free from negligence or that, notwithstanding his negligence, the damage occurred without his fault; that is, that his negligence did not contribute to the damage. Central R. & B. Co. v. Hasselkus. Sup. Ct., Ga.

Right to Obstruct Flow of Surface Water.

An owner of land who builds an embankment thereon which obstructs the flow of surface water that falls and accumulates upon his neighbor's land does not become liable for the injury arising therefrom unless the passage way through which it flows is such as to constitute a water course. Chicago, K. & N. Ry. Co. v. Steck. Sup. Ct., Kan.

Mignonette as I Grow It.

In answer to several inquiries as to how I cultivate this now fashionable cut flower I will use the columns of our esteemed journal, the AMERICAN FLORIST, as a means of conveying my practice of growing it. In former years I would raise about 2,000 plants in as many 4-inch pots, partly for winter sale, and the greatest number of them for spring market sales, most of them being sold to dealers at an average price of $1.20 per dozen. But since there has been a demand for good cut mignonette I grow a thousand less for pot sale, but four to five thousand more for cut flowers, and in pots at that, to one single solitary stem and flower.

In order to find the most convenient and profitable manner of raising mignonette for cutting I have tried several ways. One way is planting them on benches in four inches of good potting or even garden soil, and when grown into a bush, and before blooming, would disbud the different stems of the side shoots as they appeared. Another way is identical with the above, but the stems are deprived of their top bud, leaving the three upper side breaks to grow and bloom; thus each stem about twelve inches long forms a spray at the top six or eight inches long, making the whole stem about twenty inches, the entire plant bearing five to eight such stems. They sold at $10 per hundred stems or sprays, but were not appreciated as much as those with one flower to a stem.

Another way, and the one now adopted here, is growing them altogether in pots, one plant in a 4-inch pot to single stem and flower. Grown in either of these different ways they will make large flowers, although the pot grown are a trifle smaller, but stem and foliage is harder and last longer after being cut. It may look absurd at first to give this weedy plant that much attention, but when a chrysanthemum (to one flower) can be grown and sold wholesale at $8 per hundred I can not see why mignonette can not be raised that way as profitably when sold at such a price and grown in pots with less space and easier handling.

Since its introduction I have used no other than the now well known variety Machet. It grows a strong stem, dark green robust foliage, and above all a fine spike of florets, the whole spike when at its best from four to six inches above stem and very fragrant. For December blooming I sow the seed in August, in September for January and February, and by first of October for March and April blooming.

For sowing, a part of any ordinary bench in a partly open airy greenhouse is filled with three inches of soil. In this the seed is sown in drills, the drills two inches apart and one fourth inch deep. After sowing it is carefully levelled off and watered with a fine sprinkler, so as not to wash the seed out of the soil. I shade the glass slightly by whitewashing. I prefer this sowing in benches in an airy greenhouse to sowing in frames outside, for though they will dry out sooner on benches there is less danger of damping off. Seed will be up in three to five days. Should some plants start to damp off I take a teaspoon and dig out at such place one or two spoonfuls of soil, along with the specks of fungoid growth developed there, and so remove the cause, thereby isolating and saving the other plants. The same method I practice in the cutting bench, which, when done in time, stops the further growth of fungus immediately, at least with all soft wooded cuttings.

After the mignonette is up and growing I thin out the plants to about a quarter or half inch. By this time the white moth makes its appearance, depositing its eggs underneath the leaves as it flies from one plant to another. Not many days after the tiny green worm will appear, feeding on and destroying the foliage and plant. To prevent them from doing harm I spray the plants once a week with a solution of one teaspoonful of paris green to about two gallons of water, well stirred. This will kill all the small worms while feeding before there is hardly any harm done. This syringing is kept up till late in the fall, when moths have disappeared.

When the plants are about one inch high they are taken up and potted into 2-inch pots and put on a bench in an airy house; watered freely the first time, but after that syringed sparingly but often. I cover the plants with paper for shade, as well as to keep too much air off for the first few days, but have the glass lightly shaded after the paper is left off. In about a week to ten days they are rooting and growing, when they are left to the full light. As long as there is no danger of frost I leave ventilators open day and night. When of suitable size, say three inches high and otherwise in fair proportion, I transplant into 4-inch pots, taking care not to break the ball of soil, else they will get a severe check in their growth. For this reason I give them a good watering the day before potting. When putting in the 4-inch pot (which is the final potting) I either mix in the soil chicken or pigeon manure, or, better still, put a layer of it about half an inch thick in the bottom of the pot.

When plants are growing up and need support each plant is taken in hand again, given a stick fifteen inches long and then tied once. After a month or six weeks they will be long enough to be tied once more, by which time they will have made side growths, which are removed at the same time, and later on when near blooming the last side growth is removed again. The pots during all this time are standing quite close together.

During winter the temperature is kept low, say 40° to 45° at night, and ten to fifteen degrees higher in the day time. The mignonette I had on benches were also grown in 2-inch pots and afterwards planted one foot apart, but they were pinched back once, so as to form a bushy plant. In order to grow straight stems I put four sticks around each plant and draw a string around them to keep up the branches. These are about all the essential points in my treatment of mignonette, and it will not be amiss for anyone interested in its culture to try this method. A. MEYER.

St. Louis.

Vases.

It will be recollected that early in the season we published engravings from photographs of vases, etc., as they appeared just after being filled by Mr. Wm. Scott, of Buffalo, and promised pictures of the same again after the plants had made a good growth. We now redeem our promise and present in this issue views of three of the vases from photographs by E. L. Caflish, of Buffalo. Views of the hanging baskets, window boxes, etc. will appear in subsequent issues. Mr. Scott's descriptions of these vases follow.

The rustic vase illustrated is 2 feet 9 inches high and 2 feet square. These are largely used in Buffalo cemeteries and give great satisfaction, the plants doing rather better in them than in iron vases. As the plants used in each of the vases are much the same, with only slight variation, I will give the whole list at the end of these notes.

The wire basket was 2 feet 6 inches in height, 3 feet long and 1 foot 4 inches wide. This basket costs about the same as a rustic wooden basket and has the same advantage in low first cost, also the same disadvantage in that its life is only 3 to 4 years. A further objection is, there being only a thin layer of green moss between the soil and wire frame, evaporation is very rapid and lots of water is needed.

The cast iron reservoir vase, such as illustrated, is in more general use than any other style. The size of the one shown is, height 3 feet, diameter 2 feet.

The drooping plants growing in the vases illustrated were: Nierembergia gracilis, senecio, money vine, vinca—variegated and plain green, abutilon, Lobelia gracilis and erinus speciosa, nasturtium, lophospermum, Solanum jasminoides grandiflora, variegated glechoma, ivy geranium.

The upright plants were: Dracæna indivisa, Crozy canna, Nephrolepis tuberosum (much better than exaltata for this purpose), Anthemis coronaria, several varieties of flowering geraniums (all double), Mt. of Snow and bronze geraniums, Rose of Castile and Black Prince fuchsias, anthericum, three or four of the most distinct colored coleus (none better than old Verschaffeltii, Black Hero and Golden Bedder), rex begonias, tuberous rooted begonias and achyranthes in variety.

Notes on Propagation.

In order to keep up an assortment of sizes of decorative plants it is necessary to continue propagating in such quantities as one's trade requires at all seasons of the year, but it is well to remember that the summer is the most favorable time for many operations of this character from the fact that it is the active growing season for a majority of the plants in general use as decorative stock.

Of course it is desirable to have a house set apart for this purpose, but if limited space will not permit of this arrangement then the next best plan must be substituted, that is, the enclosure of a certain space in one of the houses by means of frames, so that the proper conditions may be secured for successful work. For general use in the propagating bed some clean sharp sand has long been the favorite material, as is well known by every florist, but for many warm house plants, such as crotons, dracænas, pandanus, ficus and others there is no better medium than cocoa fibre refuse, either for planting the cuttings in or to plunge the pots within the frame, this material retaining moisture for a long time without becoming sodden and also promoting rapid root growth.

The various palm seeds of trade varieties are also received in most instances during the summer months, and in all cases should be given prompt attention, almost any light soil answering for the seed pans or boxes, and the old fashioned rule for sowing seeds of covering them with soil to a little more depth than the diameter of the seed will usually prove satisfactory for seeds of this class. Abundant drainage should be given to the pots or boxes, for stagnant moisture generally results in failure in palm growing, and this fact should never be lost sight of from the seedling stage up. The common practice in many establishments has been to sow palm seeds in about six inch pots, though shallow pans and boxes are also used to a greater or less extent and with some saving in space, but where very large quantities are sown they are sometimes planted out on side benches where abundant bottom heat can be given, the latter method having been in use for a number of years in some of the large European establishments.

If wooden boxes are used it is advisable to give them a good coat of whitewash both inside and out before using and the addition of a small quantity of carbolic acid to the whitewash will be a further preventive of fungoid growth. Strong bottom heat will give much quicker results in the germination of palm seeds, but I have been unable to prove that soaking the seeds in warm water for twenty-four to forty-eight hours before planting has resulted in any quicker growth, though this method has at times been recommended. The period of germination varies greatly with different species, probably the quickest to start into growth being Latania borbonica, the germ of which frequently protrudes through the shell in from ten days to two weeks from the time of planting, while the seeds of some of the attaleas have been known to remain dormant in the ground for *five to eight years* before making any apparent growth. It is, however, almost needless to remark that palms with the latter characteristic are not likely to become trade plants, and are seldom met with outside of private collections or botanical gardens.

Kentias also are somewhat slow, usually requiring from three months upward for their germination, but if the seeds are fresh and the conditions favorable the result should be from fifty to seventy-five per cent of the number of seeds sown in the crop of plants to be potted off. But unfortunately all the seeds sent to market are not fresh and failures frequently occur, so that the result noted above cannot always be counted on.

Dracæna canes of the trade varieties, as D. terminalis, D. terminalis stricta, D. ferrea and D. fragrans are also offered at this time and should be planted at once, the common method being to lay them on a well heated bench in the propagating house, said bench being filled to a depth of three or four inches with a mixture of sphagnum and sand and the canes almost buried in this material. Some trouble has been experienced in some instances from the fact of the stock plants of dracænas becoming infested with one of the many fungoid diseases, this making its appearance in the form of the so-called "spot," and where this prevails in any great degree it is wiser to discard the young stock at once, as but a small percentage of the affected plants will outgrow the disease sufficiently to become saleable specimens.

But, providing this difficulty is not encountered, the canes will soon start into growth from nearly every joint, and the young plants should be cut away as soon as they have made a few roots.

The topping of ficus has frequently been described in the FLORIST, and we need only remark that the most symmetrical plants are secured by this method, and that the operation is a rapid one during warm weather, and while it may be continued at all seasons of the year in a warm house, yet the present is a good time, and useful little plants may still be secured in time for this winter's sales.

W. H. TAPLIN.



Seasonable Hints.

The great bulk of the carnation plants distributed are sold in the form of cuttings during the winter and spring months. This is the cheapest and best way to obtain stock. But there is also quite a large trade done in the fall in field grown plants. If properly packed they can be shipped long distances by express, but it is not safe to send them very far by freight, because of the danger of delay. The concession recently obtained from the express companies, whereby plants are received at general special rates will stimulate the sale not only of carnations but all other plants as well. In packing there are several points to bear in mind. The packages must be as light as strength will allow, the roots must be kept moist, and there should be no danger of the plants heating in transit. To follow these requirements is a simple matter, needing only care and forethought on the part of the person in charge.

The plants are dug as we would for planting indoors, but the soil is more carefully shaken from the roots. The roots are dipped in water and dry soil shaken over them. Unless the plants are small this had better be done one or two at a time. They can be packed in the boxes in two ways. The quickest for large lots is to have the boxes—crates are better if strong enough—as deep as the plants are tall. Cover the bottom with a good layer of damp sphagnum, not too wet. Incline the box and commence at the lower end running a row of plants across, then place a layer of sphagnum against the roots and so on alternately until the box is full. They should be



RUSTIC VASE.

pressed together as tightly as they will bear, being careful not to break the stems, for they are very brittle. Proper care must be taken to separate each variety and to label them correctly and legibly. Slats are then nailed across the top of the box, for if open double express rates will be charged.

It is handier to pack small lots in paper, using plenty of moss about the roots and rolling them in bundles, several plants together, as with other plants. The bundles can be packed flat in a box, but not in too large bulk, as the plants would be liable to heat.

When large plants like these are received by the purchaser the boxes should be well watered before being unpacked. When planted they should be shaded longer than plants just removed from the ground. The weight of carnations thus packed will vary according to size. Small lots will weigh more in proportion—about one half to three quarters of a pound per plant. In large lots they will weigh packed from twenty-five to forty pounds to the hundred. W. R. SHELMIRE.

Avondale, Pa.

Chester County Carnation Society.

The regular meeting for August was held at "The Patch," the comfortable home of President Ladley. Your correspondent unfortunately was obliged to be away on that day and missed the very pleasant afternoon, which was spent mostly out of doors.

The subject of oil for fuel was continued, and Isaac Larkin reported further experimentation with oil burners, but with no favorable results.

Jos. Phillips spoke of the favorable results in a dry season from irrigation. Deep and shallow culture was discussed with verdict in favor of two to three inches depth.

The regular meeting for September was held at the society's room, September 2. Mr. Darlington spoke of the good results from crimson clover to plow under, and approved of the use of domestic grown seed. Seed sown October first will be tall enough to plow under by the middle of November.

Mr. Shelmire gave his experience with carnations for bloom in a violet house with the glass removed. The growth was not as strong as plants set out in the field.

Wm. Swayne had some Tidal Wave plants carried in 3 inch pots until July 1 and then set in solid beds in a cool house that have made a strong growth. Buttercup and Golden Triumph treated in the same way are stronger than plants of same age and variety set out of doors.

The potting of varieties most difficult to lift was recommended, to be done two weeks or more in advance of time for benching. Pride of Kennett and Anna Webb had been tried to advantage. Mr. Styer thought the extra work was unnecessary where ventilation was sufficient. He had planted a house August 1 with excellent result. He uses plant-cloth tacked to under side of sash bars, by which means he keeps houses much cooler.

Edward Swayne showed an attachment for a hand cultivator to follow the harrow teeth and level and pulverize the ground—made of heavy galvanized wire set three fourths of an inch apart in a head or frame as wide as will cover the space between two rows.

Mr. Darlington spoke of the successful use of whale oil soap to destroy the black aster beetle, one ounce to three gallons of water.

The Chester County Carnation Society at all times extends a cordial invitation to the fraternity to visit them; the meetings are held on the first Saturday of each month, usually in the Boro' of Kennett Square. The membership, with one or two exceptions, embraces all the growers of the county, whether commercial or amateur, and includes a few outside. Questions of general interest are talked over somewhat informally, carnation culture of course being the principal topic.

C. J. P.

Fresh Information Regarding Sweet Peas.

ED. AM. FLORIST:—Quite a batch of valuable notes have collected in my hand and they will perhaps be appreciated by your florist subscribers. At the London horticultural exhibit this summer Mr. Eckford showed nine new varieties of sweet peas in addition to the twelve novelties introduced last season. The nine are as follows: Blanche Burpee, a very large white seeded white; The Belle, Eliza Eckford and Duchess of York, three that the introducer pronounces grand; Countess of Aberdeen, a large very pale pink; Novelty, a very large red with orange tinted standard; Excelsior, scarlet; Mrs. Chamberlain, large, red striped; Meteor, bright orange salmon standard with light pink wings. This seems like a rapid addition of varieties, but it represents the fruit of long years of patient work. This will make fifty-one Eckfords. How may we judge of their merit?

Two years ago six novelties were offered, viz.: Dorothy Tennant, Her Majesty, Mrs. Eckford, Ignea, Lemon Queen and Waverly. The writer has had them again this year in perfect bloom, and the first three are magnificent and all have merit. Again the twelve novelties offered last year have been tried here. The writer had eleven of them in perfect bloom, and all of them were on exhibit at Springfield. I will name them in the order of their merit: Venus, Lady Penzance, Lady Beaconsfield, Firefly, Blushing Beauty, Emily Eckford, Peach Blossom, Ovid, Gaiety, Duke of Clarence, Stanley and Royal Robe. The first six are of great merit and all are worthy of their originator. These were all described in the AMERICAN FLORIST of February 9 last. It is safe to assume that the novelties just shown in London will have as large a percentage of extra fine ones among them as these we have tried in this country.

Now it is somewhat tantalizing to call attention to these highly cultured varieties. Only a small number of the expensive sealed packets find their way to this country the first year. And the serious question is going to be whether, by the time they are grown in sufficient quan-

tity, they will hold the grand size they show when fresh from the originator's hands. Much of their merit will be gone if by field culture they fall back to the old size and form. It is to be hoped that in every locality there will be enthusiasts who will make an exhibition flower of the sweet pea, and give everybody a taste of them at their best. With probably two hundred acres of this flower grown for seed this year in this country it is plain that the commoner varieties must be made a field crop to meet the demand; but the Eckfords that for the past five years have been taking on such size and expanded form are going to demand a class of growers who will cater to those who are willing to pay for them.

Let me say to those who wish to import the expensive seed direct from England that it is of low germinating power the first year and should be started in the house. If one-third of it germinates, even with careful treatment, it may be considered a good percentage.

An English seedsman tells me that the varieties Carmen Sylva and Rising Sun, brought out by Laxton, are developments from the Vesuvius stock and not specially remarkable. He saw the Emily Henderson growing in Germany and his testimony agrees with my experience with it this summer, that it is a white of remarkable substance and size and has what he calls the "paper" whiteness. I commend it as the second American variety of real merit.

Let me speak again of the Lottie Eckford. Mr. Eckford tells me he did bring out such a variety, and describes it as a "creamy white with blue edge." But it appears to have been lost in the Butterfly. An English house still sends out what they call Blue Edged, but on trial that does not hold distinct from the Butterfly. Our seedsmen have been misled into calling the Capt. Clarke the Lottie Eckford by some German house. There isn't a seed of true Lottie Eckford in this country, and for the present at least the variety is probably lost. Mr. Eckford does not list it. W. T. HUTCHINS.

Indian Orchard, Mass.

The World's Fair.

This is a midway season, and there is no very great difference in the blooming material week by week. The phloxes are still holding their own on the Island; pity there is not a greater mass in bloom, and the sunflowers are very brilliant. But the drouth is very severe, and trees are suffering as well as everything else. It must be said however, that almost everywhere on the grounds the turf is kept in splendid order, not a very easy matter, considering its recent origin, and the trying weather. The grass surrounding the canna beds is especially good. The cannas themselves increase in beauty every week and the show of bloom is most striking.

There is a liberal show of bloom in the little plot near the department greenhouses, called the "old-fashioned garden," which forms part of the New York state display. Marigolds, sunflowers, stocks, balsams, four o'clocks, pansies, and other familiar old flowers, all in a tangle of luxuriant growth. The home-like familiarity of this garden is commented on by many admirers.

A number of the chrysanthemums, some planted in boxes, and others in heavy willow baskets, are now standing outside; they look very robust. The remainder of the chrysanthemums is inside. All these plants look well, and we may hope for a good show of bloom before the Fair closes.

The tuberous begonias in the New York display have grown out of disease now, and are flowering freely, showing many magnificent blooms. They are extremely showy, particularly the yellows, salmons and light scarlets. The roses in the little rose house are blooming very freely. Mrs. W. C. Whitney is a mass of pink flowers, and the house is filled with its fragrance. Kaiserin Augusta Victoria is also flowering very freely, and the same may also be said of Senator McNaughton and Mme. Caroline Testout.

The nymphæas, both in the inner court and the basin in front of the Horticultural Building, are not just now showing very much bloom. The Egyptian lotus seems to be doing but indifferently, which is a pity, for it would make a great impression blooming with its accustomed luxuriance in such conspicuous places.

In the southwest corner of the dome in the Horticultural Building, there is a group of araucarias from Pitcher & Manda, which, perhaps, hardly attracts as much notice as it deserves. It includes very unusual varieties of great beauty, as well as familiar ones. Among them is A. Cunninghami glauca, similar in form and habit to the type, but with bluish tinted foliage. A. Rulei glauca is a striking variety, somewhat suggestive of A. imbricata in habit, but with leaves less sharply pointed. A. Rulei viridis was another form, with very rich green foliage. The type is a native of the Papuan Archipelago. A. brasiliensis and the familiar A. excelsa were both to be seen in good form. Two forms of A. robusta were especially stately and beautiful. One was A. robusta viridis Vervatli, this is very beautiful in both form and color; the other, A. robusta Niepraski elegans, slender and graceful in growth. A. Cunninghami viridis was noticeable for its rich green color.

Behind these araucarias is a group of cycads. Zamia Roezlii and Z. Lehmani are shown as good sized specimens, and there are some fine macrozamias, among them a fine M. spiralis, and M. Mackenzii. Encephalartus horridus looks quite formidable enough to justify its name. E. pungens glauca and E. Altensteinii are both good specimens and the group is completed by cycases and dions. The group gives an opportunity for comparison of the various cycads, and is in harmony with the araucarias in front of them.

World's Fair Impressions.

I have been there, and should be sorry to have missed it. I was disappointed in some things, or rather in not finding some things we are badly in want of, and which, after leading such a retired life as I have done for several years, I expected to find there.

I did not expect to find the plants blooming all the year round, which the ladies always inquire for; what I was in hopes of finding was something in the way of hardy shrubs, trees and herbaceous plants to fill the place of spring and early summer stuff in the hardy garden. Hardy hydrangeas and a few colors in altheas have been our stronghold in shrubs for a long time; without these there is little among shrubs in bloom at this season. Herbaceous phlox were seen in fine showy varieties, but the improvement in them is not very marked since I was a little boy.

Tritoma uvaria in large clumps would have a very striking and pleasing effect at the edge of the lakes and lagoons, but the grumbling public should remember such clumps are not made in one year, and I question very much if they would stand the climate at Chicago such winters as the last.

I certainly expected something more from our nurserymen in the way of summer and fall blooming hardy stuff, but I did not see it. I met no better sweep in looking through the European exhibits of hardy plants, which at least did not show to any better advantage, and some things shown are about as useful in this climate as a last year's bird nest.

Visitors who were fortunate enough to be at the Fair while azaleas were in bloom inside and rhododendrons and hardy azaleas outside are now disappointed because they do not see the same blaze of color at this season. I, who have put in about ten years of my life about the London shows and the garden of the world for rhododendrons and that class of plants, parts of Berkshire and Surrey, England, naturally can tell what effect such plants have, and I know they do not bloom the year round. If they did we would tire of them, but I should like to see something to take their place later in the season. I did not see it at the Fair, nothing really to relieve the monotonous green and brown of the shrubbery but the Hydrangea paniculata grandiflora, which is one of the grandest hardy plants in cultivation, and the man who will introduce something equally good and easily grown and of a brighter color, would be entitled to a monument of more lasting material than the statues at the World's Fair.

I am not growling because that flowering stuff is not there; the general public growl about that; I am only growling, if it can be called growling, because such stuff as is wanted for the purpose is not in existence, even in catalogues.

Some of the public are complaining because they don't see the twelve apostles made of echeverias. I saw a bed of crotons in front of the Pennsylvania Building that excelled anything in the mosaic line. Some of them think they ought to see Columbus and his crew made of alternanthera; instead of that I saw superb beds of cannas, which are deservedly coming to the front.

In addition to what I saw outside I saw inside what I consider a masterpiece of arrangement in the large dome, which I consider as near perfect as could be done in the time, when taking into consideration the height of the place. The tallest plants in cultivation would be mushrooms in it. I have seen such places as the palm houses at Chatsworth and Kew in England, where grand plants can be seen, but they would be dwarfed in such a place as the dome of the Horticultural Building, Jackson Park. Then the public should take into consideration the fact that the buildings above named have taken more than a life time to bring them to the state of perfection they are now in, while at Jackson Park it was for temporary and immediate effect, which I think is grand. Then some people say of the climbing vines, "That common thing," which means the despised old Cobæa scandens. What could be found to give the effect in such a short time? Suppose such plants had been used as the best varieties of strong growing passifloras, tacsonias, allamandas, Thunbergia Harrisii and several other grand old things for climbers in hothouses. By the time the ground was warm enough for them to commence rooting for a strong growth the season would be over and the vines a dead failure. Most likely if the same thing was to be done over again many changes would be made in planting the mound, but taking all things into consideration I think it a great success.



WIRE BASKET OR STAND.

As your valuable space will be much taken up with aftermath of conventions, congresses and other seasonable matter I will say no more about what I saw further than to say I saw John Thorpe, and was never better pleased to shake hands with anyone in my life than I was with Uncle John in his natural element.

Detroit. S. TAPLIN.

The American Rose Society.

It will be the source of much gratification to all horticulturists to know that an American Rose Society has been organized.

The idea of adding the secretaries of the Carnation, Chrysanthemum and Rose Societies to the committee on nomenclature of the S. A. F. is an excellent one. Though the nomenclature in the Rose Society will not require so much watchfulness as it does in the other two societies—at present, at least. There is no telling what it may be when rose seedlings are raised by the acre in California and other favored parts of the country.

Perhaps it would not be out of place for the society to undertake to abbreviate some of the names which many roses receive, notably those sent out by European florists; especially does this apply to the names given by the rosarians of France. Nor are the craft very far behind in this respect in Germany. That sterling rose Kaiserin Augusta Victoria is a case in point. Active Americans will not take time to give the full name when speaking about this promising white rose—and they are talking about it very often in these days. Its value as a summer rose cannot be questioned, as it is proving itself to be away up in the front rank for that purpose this season. I mean as grown under glass, as I have not seen it tried outdoors so far. Whether it will prove to be profitable for winter work remains to be seen. It is very frequently referred to as "Kaiserin,"—with a diversity of pronunciations! Sometimes it is called Augusta Victoria and again simply "Victoria." Would it not be well for the Rose Society to offer some advice on this point, or take some action? "Augusta" was at one time given to the old Solfaterre, and sent out as a new variety. This was many years ago. It is rarely or never called by that name nowadays. To be known as only Victoria, would lead some people to think that it was an English raised variety, and named after Queen Victoria!

There is another variety of German origin, which has for its prefix Kaiserin —"Kaiserin Freidrich," and if this should prove to be a popular and valuable variety, it would hardly do to call either of them only *Kaiserin*, as it might cause some confusion. The latter variety is said to be a cross between Gloire de Dijon and Perle des Jardins. This is an excellent combination, and may prove useful, but whether for cut flower or not can only be determined by a thorough trial. The Rose Society can help us greatly in the matter of nomenclature.

E. L.

Miscellaneous Seasonable Hints.

Tulips and narcissus will now be arriving, and if you have the chance get them boxed at once. What you want for outside planting or for sales can be put aside, for there are a good many weeks yet to spare for that, but those you want to force should be planted in the flats as soon as possible. There is nothing gained by delay. If started at once they will be rooted before very severe weather comes, and then forcing them into flower is an easy matter. I have more than once in these pages given the dimensions of the flat that I believe is the most convenient size, and they should be all alike for every kind of bulb you force. The size is twenty-four inches long, twelve inches broad and three inches deep inside measure, the end piece one inch thick, sides and bottom one-half inch. You can make this box on your own place, and labor, lumber and all won't cost more than six cents each. You don't have to use a fine compost for the tulips, Von Sion, etc. Any old rose or carnation soil is amply good enough if it is in the right condition. I place the flats out of doors on a dry piece of ground in beds six feet wide, and a space of five or six feet between the beds. Put some old strips of boards under the boxes. They lift up much cleaner and better than they would if placed on the ground. Thoroughly soak the flats before covering; this is of great importance. I have seen some people trust to "fall rains"; let the hose be the first fall rain, and a good one. If we have an occasional good rain no more watering will be needed, but if we get a long dry spell, as we sometimes do in the fall, give the beds a good wetting every two weeks. After the soaking has gone well down I put on a very thin covering of buckwheat husks, or a very slight covering of straw; this makes the earth covering break away nicely from the soil in the flats when you are bringing them in to force. After that (the straw) throw up the soil from between the beds till the bulbs are covered to a depth of from two to three inches and not more; the excavation you have made digging out the soil affords fine drainage for the beds. Nothing more can be done, except the watering, till winter comes in earnest. For the last covering I prefer to let the earth on the beds be frozen an inch or so, and then throw on your covering of long stable manure; from four to six inches is enough. The snow will do the rest. If in a colder latitude than this perhaps more covering of manure is necessary. It does not hurt Von Sion, or any of the tulips or Dutch hyacinths, in the least to be frozen hard, but I have noticed that when frozen much they take several days longer before coming into flower. Don't forget that paper white narcissus don't want any frost at all at any time of their existence.

As you will be lifting the violets about the end of the month, go over them carefully now and cut off all runners; one fine crown is all you want at lifting time.

If you want a batch of Bermuda lilies early, bring in some and start them young, slowly increase the temperature as the plants increase in size.

You ought to be very busy propagating a great variety of stuff just now. The ivy geranium is an important plant with us now. Put in the cuttings at once in sand. Two other plants indispensable as droopers are vinca and Abutilon vexillarium. Some lift old plants of these; to have a few old plants is useful, but where you want several thousand of each so many would occupy too much room for

many months. I propagate them the middle of this month. The abutilon requires a little more care than many other things. To be entirely successful with it take only the tenderest end shoots, and as they wilt badly if neglected be sure and keep them well shaded and watered. As the vinca and abutilon require just about the same handling, I will say after being potted from the cutting bench they are kept in 2-inch pots until the middle of February, when their top is pinched off and they are shifted into 3 or 3½-inch pots. They can be stood along the edge of a rose or carnation bench, and will make fine young stuff by the first of June, plenty large enough.

There is a small, insignificant weed (I am almost ashamed to write about it, yet you see it in some very grand catalogues) that is used largely by us; it is the little money vine, lysimachia. With all its insignificance, I remember the time when I did not know how to manage to have a nice lot of young plants of it in the spring. Take a lot of the healthy shoots now, put three cuttings in a 2-inch pot, keep them shaded and watered; in a few days they will be rooted. Keep them in a cold frame covered with sash all winter till 1st of April, them bring them in, and after they start to grow shift into 3-inch and you will have useful plants for baskets, etc. If you keep them in the greenhouse all winter they get a rust and are useless. Another weed, the variegated glechoma, a very useful drooping plant, should be treated precisely as the money vine.

Don't let you coal bin be empty just now; some nights in the near future your young roses and old ones too if you have any, will want the chill taken off them. Experienced rose growers know all about that dreaded fungus which is produced by a cool night and close temperature. If it is impossible for you to fire up a little on cold nights then *don't shut up* your house; leave on a good bit of ventilation, even if the temperature should go down to 40° outside. It is not the low temperature that produces that leaf drooping fungus, but a close damp atmosphere, so leave on plenty of air if you can't fire up a little.

WM. SCOTT.

Buffalo, N. Y.

New York.

"The worst week we have ever had," is the average report from all the large establishments in the city. This has been the story all summer, but each week seems to outstrip the last in dullness. The florist's stores are practically deserted. Many have been making improvements during the summer months. Warendorf's is all finished and ready for business, so is Hanft's. Fleishman's new store under the Hoffman House is now beginning to show how beautiful it will be. The decorations on the walls and especially the frieze are very handsome. Scallen's store is all pulled to pieces, and when refurnished and decorated will be as good as new. Mr. Scallen is more interested in a new horse than the flower business just now, "so they say."

The wholesale dealers find but little to do, many of the generous ones have devoted the rear of their store to the accomodation of the "Grecks" who find the same dullness on the street that prevails in the stores and so employ their time in testing their luck at that highly respectable game known as "hoss and hoss." The dullness in the wholesale and in the 34th street market is still further emphasized by the absence of His Honor Mr. Johnnie Wier, who is taking a vacation for nearly the first time in his life, and has gone with his family to see the World's Fair. He is greatly missed.

The windows of the various flower establishments are not very attractive as but little effort is being made to make any display. In the window of a leading establishment on one of the finest streets is to be seen a fine group of araucarias, nice plants but disfigured by the weeds growing in the pots, the weeds being in some cases larger than the plants themselves, and the pots are quite thickly covered whith slime. They say that "the less a man has to do the less he will do," and flower clerks are not an exception to the rule, for in this case while the plants were to be seen in such shape in the window, the clerks in the rear of the store were doing their best to kill time. The grower should not have brought plants to the city in such shape, anyway.

The firm of Hunter and Purdy have dissolved, Mr. Purdy retiring and Mr. Hunter continuing the business under the name of Frank D. Hunter. Mr. Purdy has not yet decided as to his future movements.

Over at Flatbush there are indications of a revival. Mr. Meissner is home from the Catskills and very much improved in health. Mr. Kretschmar and Mr. Bergman have just returned from Europe greatly benefited by their trip, and ready to do their share towards making the horticultural superiority of the Flatbush florists sure for the coming season. It is said that cyclamens at Flatbush are likely to break the record this year if good intentions and determination on the part of the growers amount to anything.

Julius Roehrs, another of the European absentees, has also just returned with his family to Carlton, N. J.

Madison, N. J. still keeps up as the leading rose growing centre from appearances over there at present. Fenton has built three new houses this year, and Francis and others have all made improvements more or less in their establishments. Francis will make mignonette one of his leading specialties again this year. The house for the mignonette is 350x30. The young plants are in good shape excepting where the wood louse has got in its work on them. He is a great deal of trouble and the only way to save the plants is to cover each one with a wire netting. J. Murphy has the reputation of growing some of the best Mermets and Brides that come from Madison.

A peculiar thing of the Madison florists is their sociability. You call on number one, who immediately leaves his work and escorts you to see number two, who immediately joins and assists number one in escorting you to see number three, who does likewise, thus increasing the crowd as you go along to number four, and by the time you get around your trip you will have a small army.

At Summit, J. N. May has been making very extensive alterations and additions to his establishment. While the work is not fully completed yet it is far enough along to show that when finished it will be one of the finest establishments on the continent. A large steam boiler has been put in and about 600 running feet of houses have been added. The young roses appear to be in splendid condition.

The French cannas at Short Hills are very fine just now. Mr. Manda regards the new Charles Henderson as the finest one of the season. Late planted auratum lilies are making a great show here. They will be in bloom continuously until November.

Philadelphia.

The recent disastrous storms visited our city in part, causing considerable damage to trees and large vines, such as ampelopsis, wistarias, etc., which were torn from trellises and walls. As far as we can hear however none of the trade suffered to any great extent, the amount of damage being the loss here and there of a ventilator, and the blowing out of loose panes of glass. It is really wonderful, the amount of wind the ordinary greenhouse structures will stand. Large trees will be uprooted or great branches broken off while the light glass roofs of greenhouses on the same place will escape the fury of the storm uninjured. It is said that if secure, the ventilators should always be raised a short distance during a severe wind storm, there not being as much strain on the roof, when the air can escape from the house as when it is confined.

Business, while very light indeed, is still quite good for the season, and as the September days increase in number we hope and feel sure that the sunbrowned faces of the flower buying public already appearing, will become more and more conspicuous on our streets, and also hope that the early fall weddings may set in quite prematurely. The growers say their stock has never looked finer, the palm men claiming to have their plants in better shape and in larger variety than ever before. The retail men have renovated and touched up their stores generally, and are only waiting for the faintest suspicion of a revival of trade to lay in a stock and begin the season in earnest.

Prices of all kinds of cutflowers remain about the same. With the cool evenings the quality of roses seems to be improving. Sweet peas are done and asters are on the wane, they have been unusually good this season. Tuberoses are commencing to be seen and before long will be found on the street corners by the bucket full. Gladiolus are a drug and are offered, fine spikes, two for five cents; there is no money for either the grower or the dealer at this price, and it is a question whether any more are sold at the reduced figure than at the old one of five cents for one or six for twenty-five.

In the La Roche & Stahl matter there is nothing new. The bank creditors seem to think it will be better not to sacrifice or force to a sale immediately the equity in the real estate, but to wait awhile until the financial flurry is over, and beginning probably next spring, select a few choice lots to be put up and sold and in this way try and get as much as possible out of the property. The personal property was sold under the judgment held by the trustee and not by any one person, and was purchased by Mr. Hebener, vice-president of the Market street National Bank, not for the bank however, as was at first supposed but for his own personal benefit. As his purchase included all the stock at the greenhouses as well as the stock, good will, fixtures, and lease of the store, he has jumped at one bound into the positions of grower and dealer, and only lacks the necessary experience to make him a full fledged member of the craft.

Rodman Eisenhart is first in with single violets; they are very fragrant but look better in the basket with the lid on than they do on the counter. Rod had better let them hide their modest heads for awhile longer.

A picked team under the guidance of Isaac Kennedy tried to show how they would have brought that cup back in a game with the team which represented



CAST IRON RESERVOIR VASE.

the club in the match at St. Louis. But they did not even make a respectable showing as they were defeated in both matches, the last time by over 400 pins, so that Captain Anderson's men will now have a rest. K.

Baltimore.

The long drought is broken at last and we have green grass and full tanks again. The rain came too late for the asters, which, thanks to the beetle and heat, are very, very scarce.

A good illustration of the value of scientific nomenclature was furnished at the last meeting of the club by a discussion about this same beetle. A question from the question box was: "How to protect asters from the beetle?" One member said as it was a shy bug the best plan was to plant, if possible, where people passed frequently close to the asters; when this was not practicable the preparation of paris green used for potato bugs would do equally well for this, as it was the old original potato bug with which he was acquainted long before the Colorado beetle made its appearance. Thereupon another member said the question had nothing to do with potato bugs, which were soft, yellow, worm-like creatures, but a beetle which preyed upon asters and several other plants, and which was about an inch long and of a slate color or jet black, even intimating that the first member had lost his bearings on the question altogether, to which of course the first, being perfectly sure of the two beetles, made reply, and the profitable considering of ways and means to destroy the pest degenerated into a dispute about identity, which would all have been impossible had any one been able to give the name of either the Colorado beetle, or the long black one, or both.

The dahlias have suffered as well as the asters, but there is time yet to get a fair bloom from them; so far they are scarce and poor.

Everybody seems to be trying to get up more glass this year, so we may hope to be in a measure independent of other cities for our flowers next winter, if nothing happens. A list of the florists who have put up more glass this summer would include a heavy majority of those in the business.

The returned delegates to the convention seem to find it hard to express their pleasure, and the satisfaction they derived from the excursion and convention seems to have exceeded their most sanguine expectation. There seems to be only one fault to find with them, and that is that they did not get the S. A. F. for next year. Never mind, we will get it here yet, and that pretty soon. MACK.

St. Louis.

Trade continues to improve slightly as the season advances and the home comers continue to increase. The convention of Sunday School workers during the past week has been given credit for livening things up a bit. Stock coming in is about the same as the average during the summer, but the cool nights now prevailing are expected to improve indoor flowers. Preparations are being made all around for firing, the thermometer having gone as low as 52° during the past week.

The chrysanthemums grown for cut flowers at the various places noted lately are in fine shape; and the contests at the fall show in these classes promises to be spirited. Mr. John Young and family have returned from Atlantic City, where they have spent several weeks, all looking very well and expressing themselves as having had a pleasant time. R. F. T.

The "Model Farm," Philadelphia.

The model farm at Point Breeze, owned by Mr. Kingsley, of the Continental Hotel, is notable as being one of the first places in this neighborhood where mushroom growing was successfully carried on on a large scale. The late Mr. Kingsley, senior, was an enthusiast on the subject and not only grew enough for his big hotel, but shipped large quantities to New York and elsewhere besides. It is a good many years now since they first began growing mushrooms at the model farm (over twenty), and they are still producing them in large quantities.

Mr. McCaffrey, the late superintendent at the model farm, earned quite a reputation as a successful grower of mushrooms, and since he left Mr. Kingsley, five or six years ago, to start in the business on his own account at Moorestown, New Jersey, he has done well. He grows the mushrooms under the benches in his greenhouses, using the benches for radishes, lettuces, beets, cucumbers, tomatoes and other vegetables.

Mr. James Smith, the present superintendent at the model farm, has also had good luck with mushroom growing as well as with most other crops raised on the place. On the occasion of a recent visit there by the writer the spick and span condition of the horses, cows and other stock, the well tilled fields, the flourishing crops and the absence of weeds were a pleasure to see and spoke volumes for Mr. Smith's ability and industry. Mr. Kingsley has got a "model" farm indeed, and a "model" manager, too, for that matter.

Mr. Smith informed the writer that his son Archibald, who has ably assisted his father for some years, takes charge of the model farm on the 1st of August, Mr. Smith himself having been appointed superintendent of the Betz estate at Betzwood, four miles above Morristown, this state. The Betz estate comprises about 1,700 acres in the highest state of cultivation. All kinds of truck is raised and the greenhouses are new and very complete. Mr. Betz is to be congratulated on having secured such an able manager for his place as Mr. Smith. There are few who have the ability, training and experience necessary to fill so important a position where one must be something of an expert, both in agriculture and horticulture, and at the same time of good executive ability and able to manage large affairs in a thorough and busi-

ness-like manner. Mr. Smith has many friends in the trade, all of whom will be glad to hear of his new appointment and will follow him with their best wishes.

G. C. WATSON.

MARLBORO, MASS.—S. M. Wile is erecting a new 100 foot greenhouse on Hosmer street.

WELLSBORO, PA.—W. H. Whiting has added 2,300 feet of new glass this season.

Please mention the AMERICAN FLORIST every time you write to an advertiser.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By an experienced florist and gardener. Address E. HAY, care Mrs. Josephsen, 200 N. Green St., Chicago.

SITUATION WANTED—By a florist, single, with over 20 years' experience, on private or commercial place. References. GEO. MUNICH, Attica, N. Y.

SITUATION WANTED—In or around New York by end of Sept. by gardener with 13 years' experience in greenhouse and landscape work. Address E. care American Florist, Chicago.

SITUATION WANTED—By first-class florist and gardener; thoroughly experienced in both branches; single. Best references. State wages. H. SWABY, Clifton, Green Co., Ohio.

SITUATION WANTED—By a practical gardener and florist, as such, or as fireman on large place. Best of references. German, married, 2 small children. A B, care American Florist, Chicago.

SITUATION WANTED—By good all round grower; 15 years' practical experience in cut flowers, ferns, decorative and bedding plants; married, no family. H. WESTON, 387 Woolsey Ave., Astoria, L. I., N. Y.

SITUATION WANTED—As foreman on commercial place; thorough, practical knowledge of the profession. Roses, carnations and bulb forcing a specialty. Address THOS. MCKENZIE, 139 Sycamore St., Cincinnati, Ohio.

SITUATION WANTED—By young man, married—private place preferred: 8 years' experience on orchids, chrysanthemums, stove and bedding stuff, etc. New York or New England preferred. Address Z, care American Florist, Chicago.

SITUATION WANTED—By a first-class florist and gardener, who understands the business thoroughly; 10 years' experience in Europe and U. S.; Swede, age 26, single. Address P. G. PEARSON, box 636, Batavia, Ill.

SITUATION WANTED—As gardener or to take charge of private place; understands the care of all kinds of stock. Filled similar situation for 20 years. Best of references. Address B A. care American Florist, Chicago.

SITUATION WANTED—By florist, in a cut flower or plant establishment; good grower of roses, carnations and general bedding stuff. Good potter. Chicago or Milwaukee preferred. Address JOHN K, P. O. box 65, Western Springs, Ill.

SITUATION WANTED—By a first-class florist and gardener as foreman or head gardener, commercial place preferred; 30 years' experience in all branches; Austrian, married, no family. Address T. A. KASCHKA, 315 8th St., N. W., Washington, D. C.

SITUATION WANTED—As florist or propagator in growing roses, carnations, palms, ferns, etc.; single man, 32 years of age, 18 years' experience in America and Europe. CHARLES HANDEL, care C. Nicolaus, 6923 Ave. B, Parkside, South Chicago.

SITUATION WANTED—As manager or foreman; thoroughly versed in roses, carnations, violets, decorative and bedding plants; the forcing of all kinds of bulbs; over 22 years' experience. References given if required. FLORIST, 41 Steinway Ave., Cleveland, O.

SITUATION WANTED—As manager or foreman in large commercial or private place by married German florist; 20 years' experience on both continents, and well up in growing all kinds of flowers and shrubs. First-class references. Address A. F. CLEMENS, 41 Tennessee St., S. Nashville, Tenn.

SITUATION WANTED—Lanscape gardener: capable, industrious, able to draw and work after his own maps, wants engagement with trade or private parties. References exchanged. Willing to invest small capital with reliable party in good location. Address AMBITION, P. O. box 2332, New York City.

SITUATION WANTED—By first-class German binder and decorator; also experienced in cut flowers market and winter-flowering plants, strong, energetic, single and reliable man; has capital, and later on would like to go into company. Address, stating wages, OTTO HUECKSTEDT, 75 Avrille Ave., Rochester, N. Y.

WANTED TO RENT—A few greenhouses with some ground, near Chicago. Address L M. care American Florist, Chicago.

WANTED—First-class rose and bulb grower. Single. Address with full particulars, J. H. HARRELL, Oak Station, Allegheny Co., Pa.

WANTED—A man with experience; able to propagate and grow a general assortment of plants—for catalogue trade. WEBSTER BROS., Hamilton, Ont.

WANTED—Good plants of smilax, field-grown carnations and general greenhouse stock for a new commercial place. Send price lists and samples. Address N. ZWEIFEL, 14th St. and Groeling Ave., Milwaukee, Wis.

WANTED—A customer to buy 5,000 begonias, mixed white, Rubra, Argentea, Guttata, all leading varieties for 3½-inch pots for winter blooming, $6.00 per 100. Write at once. A. K. SAVACOOL, East Stroudsburg, Pa.

WANTED—In a commercial establishment in Grand Rapids, Michigan, a thoroughly competent man, as working foreman. Must be a first-class rose grower and general propagator. No one addicted to drink or profanity need apply. Address J. W. RAWLINSON, 130 Monroe St., Grand Rapids, Mich.

FOR SALE OR LET—A valuable florist establishment near depot. Apply to JACOB MENDEL, Nyack, N. Y.

FOR SALE OR RENT—6,000 square ft. glass, plenty of ground, 11 miles from Philadelphia, growing college town, steam heated, newly built. Apply R. A. DARE, Swarthmore, Pa.

TO LET AT ONCE—My florist business at 20 per cent. for me. Location best, cars stop and connect to all parts every half hour. Come and see. Sickness. LOUIS R. FOX, Gloversville, N. Y.

FOR SALE—1,200 feet 4-inch cast iron pipe at 6c. per foot. Couplings, elbows, etc. at half cost. Address JACOB RUSSLER. 102nd and Clinton Sts., Fernwood, Chicago, Ill.

FOR SALE CHEAP—Ten acres of land with two greenhouses 20x100 feet each, heated with hot water; in good location. Reason for selling, I am not a florist. Address CHAS. E. OLMSTED, Danville, Ill.

WANTED.

A practical seed grower; one who has had experience in flower seeds preferred. Also plant packer for nursery mail department. Address PACIFIC COAST, P. O. box 2683, San Francisco, Cal.

FOR SALE OR RENT.

Rose and cut flower growing plant containing about 35,000 square feet of glass; houses heated by steam and hot water; all in good condition; well stocked with roses, ferns, palms, etc. Only 18 minutes ride from center of city. If you mean business, address FLORIST, care Chas. E. Prather, Louisville, Ky.

FOR SALE OR TO RENT.

The following greenhouse property, situated on the outskirts of Springfield, the City of Houses; or will sell Greenhouses, Stock and Fixtures and give ten years' lease of 2 acres land. Ten houses in all—5 houses, 10 feet wide, 65 feet long; 4 houses, 18 feet wide, 65 feet long; 1 house, 18 feet wide, 65 feet long. Steam plant! New double Florida Boiler. Stock in good condition, with a large and extra good home market. This is an opportunity in a life-time, as present owner has other interests to look after. If you are looking for a chance, apply at once to

N. D. WINTER,
5 Elm Street, SPRINGFIELD, MASS.

Phœnix rupicola.

This useful and beautiful Date Palm in **EXTRA FINE PLANTS**, growing in from 7 to 10-inch pots, from $3.50 to $7.50 each, according to size.

EDWIN LONSDALE, Wyndmoor,
STATION "G," PHILADELPHIA.
(Chestnut Hill P. O.)

FIELD GROWN CARNATIONS

New Varieties. Good, healthy plants.

Mme. Diaz Albertini	$25.00 per 100
Mrs. E. Reynolds	20.00 "
Wm. Scott	20.00 "
Richmond	20.00 "
Spartan	15.00 "
Dr. Smart	15.00 "
Western Pride	15.00 "
Wabash	15.00 "
Blanche	15.00 "

FRED. DORNER & SON, La Fayette, Ind.

8,000 FIELD-GROWN CARNATIONS

$6.00 per 100; $50.00 per 1000.

PROBST BROS. FLORAL CO.,
1017 Broadway, KANSAS CITY, MO.

FIELD-GROWN CARNATIONS.

Large, healthy plants of all leading varieties. A discount on large orders. Write for prices.

J. A. TRACHT & SON, Galion, Ohio.

CARNATIONS

Strong and healthy, for Immediate Delivery.

	Per 100
MRS. FISHER	$ 6.00
McGOWAN and PORTIA	8.00
AURORA	12.00
THOS. CARTLEDGE & BUTTERCUP	15.00

10 per cent. off for 500 plants; 15 per cent. off for 1000 plants.

F. M. PENNOCK, Charlestown, Jefferson Co., W. Va.

CARNATIONS.

Healthy plants for winter blooming.
TUBEROSE BULBS, home-grown, by the thousand.
CUT FLOWERS of Carnations in season.

Chas. T. Starr,
AVONDALE, Chester Co., PA.

THE BEST IS THE CHEAPEST.

Therefore grow the best varieties of

CARNATIONS,

and get them from

GEO. HANCOCK, Grand Haven, Mich.

who has them all. Send for price list of field-grown plants.

CARNATIONS ALL

THE LEADING VARIETIES.

R. T. LOMBARD,
Wayland, Mass.

FIELD GROWN CARNATIONS.

Fine healthy plants for **Winter Bloom.**

W. R. SHELMIRE,
CHESTER CO., AVONDALE, PA.
Send for Circular.

CARNATIONS,

Grace Wilder, Tidal Wave and Silver Spray, **BOUVARDIAS,** Pres. Cleveland, Pres. Garfield and Bridal Bouquet, single white. Also Kentias, Arecas, Latania Borbonica, etc. Ready Sept. 1st.

WM. A. BOCK, N. Cambridge, Mass.

FIELD-GROWN CARNATIONS.

I offer the following varieties in quantity; all strong, healthy plants, ready Sept. 10th:

Mrs. Fisher, L. L. Lamborn, Puritan, Lizzie McGowan, White Dove, Angelus, Daybreak, Mrs. Ferd. Mangold, Thos. Cartledge, Emily Pierson, Wm. F. Dreer, Golden Gate, Peachblow Coronet, Cæsar. A number of other kinds in small lots. Correspondence solicited.

C. J. PENNOCK, The Pines, Kennett Square, Pa.

FIELD-GROWN CARNATIONS.

30,000 FIRST-CLASS PLANTS.

Nellie Lewis, Puritan, Portia, McGowan, American Flag, Daybreak, Annie Wiegand, J. J. Harrison, Hinze's White, Tidal Wave and other varieties.

Send us a list of what you want, and get our *Special low* prices.

VICK & HILL, Rochester, N. Y.

CARNATION PLANTS

25,000 including all the best varieties. Strong, healthy, field-grown plants.

ADDRESS **N. S. GRIFFITH,**
Jackson Co. INDEPENDENCE, MO.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

BEAUTY

and **BRIDESMAID,** fine 3-inch now ready for planting, $8.00 per 100. Also **Perle, Meteor, Cusin, Wootton, Soupert, Hoste, Sunset, Mermet** and **Bride,** $6 per 100. A splendid stock for late planters.

M. A. HUNT, Terre Haute, Ind.

ROSES

BRIDES, MERMETS, BON SILENE, NIPHETOS, CUSINS, WATTEVILLES AND JACQUEMINOTS.

25,000 fine plants in 3-inch pots, at a bargain. Will quote you prices on application. IF WANTED SPEAK QUICK.

ROSES

A. N. PIERSON, CROMWELL, CONN.

SPECIAL • BARGAINS

FOR THE TRADE.

	Per 100
1000 Hydrangea Otaksa, extra fine, bushy plants, from 4-inch pots, with 4 to 6 strong shoots, splendid stock for spring trade	$10.00
Second quality (nearly as good)	8.00
600 Bride Roses, fine plants, from 3-inch pots	6.00
1000 Perles, extra large, bushy plants, from 3-inch pots, ready for four s	8.00
1000 Mme. Pierre Guillot, from 3-inch pots, first-class	5.00
3000 Meteors, from 2-inch pots, strong plants	4.00
500 Queens, from 2-inch pots. This is one of our best paying roses either for pots or forcing	4.00

All the above is strictly first-class stock, and sure to give perfect satisfaction.

C. YOUNG & SONS' CO.,

1406 Olive St., ST. LOUIS, MO.

ROSES.

LAST CALL. FINE STOCK.

		Per 100	Per 1000
2,500 PERLE	3-inch,	$5 00	$40 00
1,500 PERLE	2½-in.	3 00	25 00
500 BRIDE	3-inch,	5 00	40 00
1,000 BRIDE	2½-in.	3 00	25 00
1,200 MERMET	2½-in.	3 00	25 00
130 WABAN	2½-in.	3 00	
200 HOSTE	2-inch,	3 00	

BROWN & CANFIELD,

. . . . SPRINGFIELD, ILL.

ROSES. Clean, healthy stock. Cash with order 5 per cent discount.

200 Perles	2-in.	2 cts.
800 Perles	2½-in.	3 cents
200 Woottons	3-in.,	4 "
150 Woottons	2½-in.	3 "
50 Woottons	4-inch,	6 "
75 White La France	3-inch,	4 "
250 Mme. Vasset	2-inch,	2 "
250 Meteors	3-inch,	4 "
100 Meteors	2½-in.	3 "
700 K. A. Victoria	2-in.	10 "
1800 Testouts	2-in.	$9 per 100; $75 per 1000

W. W. COLES,

Maple Hill Rose Farm, KOKOMO, IND.

FIELD-GROWN CARNATIONS.

Strong, healthy plants: Mrs. Fisher, Garfield, Portia, Hinze's White, White Dove, L. L. Lamborn, Buttercup, Lizzie McGowan, and newer sorts.

VIOLETS—Marie Louise and Swanley White.

ROSES—Best forcing sorts, from 2½ and 3-in. pots.

SMILAX—Strong plants, from 2-in. pots.

Heinl's Monthly Pelargoniums. Low cash prices on above stock on application. I will take in exchange Double White Primroses, Ferns, Rex Begonias, Draecenas, and young Palms.

JOSEPH HEINL, Jacksonville, Ill.

10,000 Gen. Jacqueminots.

Pot Grown on their own Roots.

From 5-in. Pots, 16 in. to 18 in. high, $8.00 per 100
From 4-in. Pots, 12 in. to 15 in. high, $6.00 per 100
ENGLISH IVIES, Pot Grown, one year old, 3 to 5 feet high, $5.00 per 100.

Cash with orders. When ordering give directions how to ship.

JOHN RECK, Bridgeport, Connecticut.

JULES DE COCK'S NURSERIES

GHENT, BELGIUM.

OFFER TO THE TRADE OF GOOD PLANTS.

10,000 Araucaria Excelsa; 100,000 Begonia Bulbs.
30,000 Azalea Indica; 20,000 Azalea Mollis.
100,000 Palms, different sorts, all sizes.
10,000 Laurel Bays, Standards and Pyramids.

Please mention the American Florist every time you write any of the advertisers on this page.

10,000 FIRST QUALITY FORCING ROSES

READY FOR IMMEDIATE PLANTING.

Fully equal to those sold last year, and perfectly healthy in every respect.

LA FRANCE, 3-inch pots, $9.00 per hundred; 4-inch pots, $12.00 per hundred.

MERMET, BON SILENE, MME. HOSTE,
PERLE DES JARDINS, SAFRANO, MME. CUSIN,
3-inch pots, $7.00 per 100; 4-inch pots, $10.00 per 100.

SMILAX. Strong plants, 2½-inch pots, $2.50 per hundred; $20.00 per thousand.

J. L. DILLON, Bloomsburg, Pa.

FORCING ROSES.

Good stock . . . 3 AND 4-INCH POTS.

AMERICAN BEAUTY, BRIDE, MERMET, BRIDESMAID, METEOR, PERLE, SUNSET, GONTIER, LA FRANCE.

A. S. MacBEAN, Lakewood, New Jersey.

Forcing Roses.

FINE STOCK, IN 3-INCH POTS.

Perle, Mermet, Bride, Meteor, Bennett, Albany and La France. Price, $5.00 per hundred.

GEO. W. MILLER. Hinsdale, Ill.

ROSES.

Fine healthy stock. Per 100 P. 1000

Perles, Mermets, The Bride, Sunset, Papa Gontier, Niphetos, Bon Silene, La France, Souv. d'un Ami, Duchess of Albany, Mad. Cusin, Mad. de Watteville, from 3-in. pots	$8.00	$75.00
SMILAX, from 2½-inch pots	2.50	20.00

Lots of other Fine Stock.

Send for new list.

WOOD BROTHERS,
Fishkill, N. Y.

Mention American Florist.

The Grand New Forcing Rose,

"American Belle."

Prices and full particulars on application.

John Burton, Chestnut Hill, Philadelphia

Carnations, Violets, Pansies.

40,000 CARNATIONS.

	Per 100
Extra strong, healthy, field-grown plants. No rust.	
6,000 Grace Wilder	$ 6 00
3,000 Portia, 500 Fred Creighton, 600 Mayflower, 5,000 Orange Blossom, 4,000 Tidal Wave, 15,000 Hinze's White, 400 Anna Webb, 300 Silver Spray, 300 Garfield, 300 White Wings	5 00
Other varieties in small quantities.	
2,000 Marie Louise Violets, fine healthy stock, field-grown	7 00

The Jennings Strain of large-flowering and fancy Pansies, 65c. per 100 by mail; $5 per 1000 by express; 5000 $20. White and Yellow, separate colors, same price.

PANSY SEED. Finest mixed—pure white, yellow dark eye, each per trade pkt. 50c. and $1. Mixed per oz. $6. White or yellow $5 per oz.

Green's Farms is my nearest station on the line of New York, New Haven & Hartford R. R., 50 miles from New York, six minutes walk from depot.

Address *E. B. JENNINGS,*
Lock Box 254. SOUTHPORT, CONN.

COMPETITION DEFIED.

THRE. DELARUYE DE MULDER,

NURSERYMAN,

Ledeberg, nr. Ghent, Belgium,

Begs to offer all kinds of Palms, Azalea Indica and mollis, Araucaria excelsa and glauca, Aspidistra, green and variegated, all kinds of Dracænas, green, striped and variegated, Begonia and Gloxinia tubers, Rhododendrons, Ficus elastica, green and variegated, Bay Trees, Laurustinus, etc., etc., of all sizes, at the lowest and cheapest market prices, and of an irreproachable culture.

Terms—Cash with order for all unknown purchasers; all packing free for orders with cash exceeding $50.00.

☞ Apply for general trade list.

SMILAX.

	Per 100	Per 1000
From 2½-inch pots	$3.00	$25.00
" 2-inch pots	2.50	20.00
" Thumbs	2.00	15.00

Also a limited quantity of **PANDANUS UTILIS** and **LATANIA BORBONICA,** strong plants, from 4-inch pots. Price on application.

NATHAN SMITH & SON,

167 W. Maumee St., Adrian, Mich.

Association "Flora"

BOSKOOP, HOLLAND

NURSERIES.

Roses, Clematis, Shrubs, Azaleas, Palms, Herbaceous Plants, Bulbs, Etc.

Catalogue on Application.

P. OUWERKERK,

206 Cambridge Ave., JERSEY CITY, N. J.

When writing to any of the advertisers on this page please mention the American Florist.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Fire Insurance.

Among the many risks carried by the greenhouse men throughout this country the danger of fire is not the least. Almost every other industry can find protection in insurance against loss through this destructive element at rates which are reasonable. The florists, however, are in many instances paying as high as 2 and 3 per cent. per annum for their insurance. Again others are paying as low as ½ per cent. for the same class of risks. Before ascertaining the latter fact our committee, at that time working under the auspices of the Hail Association, thought a low rate could be obtained by bringing before the insurance companies an intelligent classification of greenhouse risks, showing also the wonderfully safe construction of the modern greenhouses.

As a low rate, however, has been found to exist, our efforts now shall be entirely in the direction of having that same low rate adopted generally by all first-class companies on good structures. To accomplish this result we must first of all have the earnest co-operation of every florist in the land.

In order to act intelligently we should know the number of fires, the total of losses through them, and the nature of the structure during a given recent period of time. Also what insurance there is now carried by the trade in this country, what rate is paid, and by what companies insured.

With this object in view, the following questions are asked, and it is hoped that every florist will devote a few moments to the answers, which shall be directed at once to E. H. Michel, Magnolia and Tower Grove avenues, St. Louis, Mo.

1. State what greenhouse structures, if any, have to your knowledge been partially or entirely destroyed by fire during the year ending August 1, 1893.

2. If there were any, state cause of fire and amount of loss on structures, also loss on plants. Describe houses, whether steam, hot water, or flue heated.

3. *A.* Do you carry fire insurance?
B. What amount?
C. In what companies?
D. What rate do you pay?
E. Is your stock insured or only the houses?
F. Describe your houses, whether old or new, and style of heating.
G. What is the total value of your greenhouses and of your stock in them?

We trust that you will answer these questions immediately. If you do we shall try to secure for all good and cheap security against loss. Respectfully,

E. H. MICHEL,
J. G. ESLER,
E. A. SEIDEWITZ. } Committee.

J. B. DEAMUD & CO.

Wholesale Florists, 45 Lake St. (FLORIST EXCHANGE), CHICAGO, ILL.

We have over 100,000 feet of glass devoted exclusively to Roses. We have ten houses 21x170, containing nearly 20,000 plants of American Beauty. The balance planted to Albany, La France, Meteor, Bridesmaid, Bride, Perle, Mermet, Hoste, Victoria and Wootton. All shipments made from stock **CUT FROM OUR OWN HOUSES**, which assures our customers **Strictly Fresh Flowers.**

We ask for a trial order and we will do our best to make you our friends.

FIRST-CLASS GOODS, STRICTLY FRESH, and at REASONABLE PRICES GUARANTEED.

THEY SAY That **ASPARAGUS PLUMOSUS NANUS**

at 50 cents a string, 8 to 12 feet in length, is the cheapest and best material for decorating, as it will stand longer and look better than any other green in this hot weather.

ORDER IN LARGE OR SMALL QUANTITIES, FROM

W. H. ELLIOTT, Brighton, Mass.

Dissolution of Partnership.

August 31, 1893.

Notice is hereby given that the co-partnership heretofore existing between Frank D. Hunter and James Purdy, doing business at 51 W. 30th street, New York City, under the style of Hunter & Purdy, is this day dissolved by mutual consent. Said business will hereafter be carried on by the undersigned who assumes all the liabilities of said firm, and to whom all claims belonging to said firm should be paid.

FRANK D. HUNTER.

Propagating the Clematis.

Replying to the query on the above subject I find that the surest way to increase a stock of clematis is by grafting. The stock I prefer is Clematis viticella (the small blue flowered one), as it does not sucker. Take thrifty, well grown plants in November, select your wood beforehand and use only well developed buds, by the system called "bud grafting," which is very much the same as budding only the bark can not be raised as in budding. In cutting the buds take as little of the wood as possible, for the bark is the active principle. Tie securely and bury in a box of *moderately* damp sand or sawdust and place in a greenhouse or moderately warm place and examine from time to time. When united and beginning to push out pot them up and bring into light; it will be well to keep a little damp moss over the grafts till leaves begin to open, when they may be exposed to full light and will grow off rapidly, often making strong blooming plants by spring. Water must be used very sparingly till the plants are well established.

F. A. BALLER.
Bloomington, Ill.

PLEASE WRITE on your printed letter head when addressing our advertisers. If you have no printed letter head, then enclose your business card or bill head.

DO YOU WANT a list of the leading cemetery superintendents? You will find such a list in our new trade directory and reference book.

THE AMERICAN FLORIST and *Gardening* together to one address for $1.75. Send orders to the American Florist Co.

WHOLESALE FLORISTS

La Roche & Stahl

N. E. CORNER 13th & Chestnut Sts., PHILADELPHIA.

SAMUEL S. PENNOCK,

Wholesale Florist

REMOVED TO REAR OF 42 S. 16th ST., Philadelphia, Pa.

THE SMILAX KING!

Who? KOFFMAN,
Where? WALDEN, Orange Co., N. Y.

What? **SMILAX**

25c. a string; 20c. a string by the hundred; 18c. a string by the thousand.

When? ALL THE YEAR AROUND.

And he pays the Express.

HARDY CUT FERNS

LAUREL FESTOONING, ETC.

The only place in the world where you can **Always** get them,

H. E. Hartford,

18 Chapman Place, BOSTON, MASS.

CATALOGUE PRINTING. ELECTROTYPING.

Done with expert ability for Florists Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.,
HARRISBURG, PA.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO.
Western Agent for the GREAT ANTIPEST.

Kennicott Bros. Co.
WHOLESALE CUT FLOWERS,
34 & 36 RANDOLPH STREET,
CHICAGO, ILL.
WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
126 Dearborn Street, CHICAGO.
Store Closes Nights 9 P. M.; Sunday 2 P. M.

NILES CENTER FLORAL CO.
Incorporated.
WHOLESALE GROWERS OF
CUT FLOWERS of ALL KINDS
and Dealers in FLORISTS' SUPPLIES.
CHAS. W. McKELLAR, Mgr.
In Chicago Cut Flower Exchange.
45 Lake St., CHICAGO.

T. J. CORBREY,
Wholesale and Commission
FLORIST,
45 Lake St., CHICAGO, ILL.
In Chicago Cut Flower Exchange. . . .

A. G. PRINCE & CO.,
Wholesale and Commission
FLORISTS,
45 LAKE STREET,
In Chicago Cut Flower Exchange. CHICAGO.

DAN'L B. LONG,
COMMISSION • FLORIST,
495 Washington St., BUFFALO, N. Y.
FORCING BULBS, FLORISTS' SUPPLIES,
LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application.

H. L. SUNDERBRUCH,
Wholesale Florist
4TH AND WALNUT STREETS,
Cincinnati, O.

W. ELLISON,
WHOLESALE
Cut Flowers AND Florists' Supplies
1402 PINE STEET,
St. Louis, Mo.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

Wholesale Market.

Cut Flowers.

NEW YORK, Sept. 2.

Roses, Gontier	.50
" Meteor	1.00@ 5.00
" Beauty	5.00@15.00
" general assortment	1.00@ 3.00
Carnations	.50
Gladiolus	1.00@ 1.50
Valley	4.00
Auratum lilies	4.00
Asters, per bunch	.02@ .03
Smilax	10.00@12.00
Adiantums	1.00

BOSTON, Sept. 2.

Roses common	1.00@ 3.00
" fancy	2.00@ 6.00
Carnations	.75@ 1.00
Asters	.50
Gladioli	1.00@ 1.50
Lily of the valley	4 00
Tuberoses	1.00
Japan lilies	1.00@ 2.00
Allamandas	2.00
Sweet peas	.10
Smilax	12.50
Adiantum	1.00
Asparagus plumosus	50.00

PHILADELPHIA, Sept. 2.

Roses	2.00@ 3.00
" Beauties	15.00@20.00
" Meteors	6.00
Carnations	.50@ .75
Asters	.25@ .50
Sweet peas	.25@ .30
Gladiolus	5.00
Valley	4.00
Pond lilies	.50
White hollyhocks	.75@ 1.00
Balsams	.25@ .50
Adiantum	.75@ 1.00
Smilax	15.00
Asparagus	50.00

CHICAGO, Sept. 5.

Roses, Perles, Guillot, Niphetos	2.00@ 3.00
" Albany, Bride	3.00@ 4.00
" Meteor	5.00
" Beauties	8.00@15.00
Carnations	.50@ 1.00
Sweet Peas	.12
Auratum	6.00
Gladiolus, longiflorum	4.00@ 6.00
Asters	.25@ .80
Hollyhocks, white	.60
Valley	1.00@ 3.00
Smilax	12.00@15.00
Asparagus	75.00

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers AND Florists' Supplies
WHOLESALE.
67 Bromfield Street, BOSTON, MASS.

WHOLESALE FLORISTS,
JOBBERS IN . . . FLORISTS' SUPPLIES, FLORISTS' VASES.
METS, BRIDES, GONTIERS, CARNATIONS, ALWAYS ON HAND.
1 Music Hall Place, BOSTON, MASS.
HORTICULTURAL AUCTIONEERS. . .

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St., BOSTON, MASS.

Send for a Copy OF OUR
TRADE DIRECTORY
AND REFERENCE BOOK.
PRICE $2.00.
AMERICAN FLORIST CO.,
P. O. Drawer 164. CHICAGO, ILL.

CUT SMILAX,
15 cts. per string till November 1st. Quality first-class. Special attention to orders by wire.
J. E. BONSALL & SON, 30B Garfield Ave., Salem, O

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN AND SHIPPERS OF
Choice Flowers.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST.
32 West 30th Street, NEW YORK.
Roses Shipped to all Points. Price list on application.

JOHN YOUNG,
Commission Dealer in
CUT FLOWERS.
WHOLESALE.
46 WEST 30TH ST., NEW YORK.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS,
51 W. 30th St., NEW YORK.

JAMES HART,
WHOLESALE FLORIST.
117 W. 30TH ST., NEW YORK.
The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHRS,
WHOLESALE
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.
Established 1879.

MILLANG BROS.,
Wholesale Florists,
17 WEST 28TH STREET,
NEW YORK.
BRANCH: Cut Flower Exchange, 40B E. 34th Street.

MICHAEL A. HART,
Wholesale AND Commission Florist
113 WEST 30TH STREET,
. . . NEW YORK.
THE FINEST ROSES AND CARNATIONS.
Branch, at Cut Flower Exchange, 40B E. 34th St.

EDWARD C. HORAN,
34 W. 29th Street, NEW YORK,
Wholesale Florist
Careful Shipping to all parts of the country.
Price list on application.

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
WHOLESALE
FLORIST,
1122 PINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and treasurer, 116 Chambers street, New York. Next annual meeting second Tuesday in June, (will probably be held in Toronto.)

VISITED CHICAGO: W. W. Rawson, L. L. May, R. Maitre, W. P. Durban.

DROUTH has injured the bean crop materially in nearly every section where they are grown.

HENRI L. DE VILMORIN will return to Chicago from a trip to the Pacific coast about September 25.

DROUTH about Chicago continues; hardly a drop of rain has fallen in eight weeks; few outdoor blossoms of dahlias can be found.

AT PHILADELPHIA onion sets are said to be from one-third to one-half a crop; at Chillicothe, Ohio, 35,000 bushels, a usual crop; at Louisville one-half crop.

THE RETURNS from the fall bulb catalogues now being mailed willl be anxiously awaited as indicating what effect, if any, the money panic is likely to have on the mail trade, especially the business for the coming spring.

News Notes.

AMHERST, MASS.—M. B. Kingman is making extensive additions to his greenhouses.

WESTERLY, R. I.—S. J. Reuter has added two houses 100x16 to his establishment this season.

PORTLAND, ME.—E. J. Hannon & Co. have begun the erection of two more greenhouses.

SPRINGFIELD, MASS.—The Hampden County Horticultural Society will hold an exhibition on September 9.

BATAVIA, ILL.—The nursery business of Williams & Sons has been incorporated with a capital stock of $7,000.

FRAMINGHAM, MASS.—Wm. Nicholson is adding a new house 150x20, to be devoted to carnations. It will be heated by hot water under pressure.

MARBLEHEAD, MASS.—On August 31st, a very pretty flower show was held at Abbot Hall, under the patronage of Hon. J. J. H. Gregory and Mr. Franklin Reynolds.

QUEENS, N. Y.—C. W. Ward, of the Cottage Gardens, is building a range of short-span-to-the-south houses for carnations and will keep a careful record of results obtained from them in comparison with those from houses of usual construction.

ROME, N. Y.—A terrific hail storm played havoc with glass in this city the afternoon of Sunday, Aug. 27. C. B. Humphrey lost over 2,000 lights of glass on his greenhouses and many of his plants were sadly injured. Morris L. Jones lost 900 lights, but his plants were not so seriously damaged. T. L. Hurst's greenhouse was also injured.

Choice Lily of the Valley Pips.
Ernst Reimschneider, Altona, Hamburg.
For Fall Importation. Catalogues free on application to agents,
C. C. ABEL & CO., P. O. Box 920, New York.

DUTCH BULBS. We are shipping small lots of these now to customers who are in need of them for early retail sales, Fairs, etc.
LILIUM CANDIDUM, large, plump, solid bulbs, per 100 $2.75; per 1000 $23.00.
FREESIAS, clean, large, healthy bulbs, first size $4.50; select $7.50 per 1000.
ROMANS, PAPER WHITE NARCISSUS, and a **FULL LINE** of all Fall Stock.
ROSE C. SOUPERT, 2½-inch, fine stuff, per 100 $3.50; 3½-inch, per 100 $8 00.
LATANIAS, 4-inch stuff, grown cold, well rooted, 3 to 5 character leaves, ready for 5-inch pots, per dozen, $4 00; per 100, $30.00.
PHŒNIX RECLINATA, 5-inch, good value at doz. $5.00.
PANSY, VAUGHAN'S INTERNATIONAL MIXTURE, Now Ready, is a World Beater.
NEW CROP SEED, per ⅛ oz. $1.50; oz. $10.00. Also separate colors in great assortment.
Vaughan's Seed Store,
148 W. Washington St., CHICAGO. 26 Barclay St., NEW YORK.

MAMMOTH BULBS
LILIUM HARRISII FOR EXHIBITION
purposes and for growing **SPECIMEN PLANTS.** Very choice and scarce.
PRICE, $25.00 per 100.
Also a fine lot of 5 to 7, and 9 to 11
PRICE, 5 to 7, $3.00 per 100; $25.00 per 1000.
PRICE, 9 to 11, $12.00 per 100.
F. R. PIERSON COMPANY,
Tarrytown-on-Hudson, N. Y.

FICUS • ELASTICA.
An extra large stock of fine, strong plants.
Write for special prices.
ANDORRA NURSERIES, Chestnut Hill, Philadelphia, Pa.



Write for Wholesale List.
MICHEL PLANT AND BULB CO.,
ST. LOUIS, MO.

CHOICE SWEET PEAS.
Being the largest growers of the above in the world the trade are invited to send a list of their requirements and secure low prices for Fall delivery.
SHERWOOD HALL NURSERY CO.
Menlo Park and San Francisco, Cal.

SMILAX.
First-class, from 2½-inch pots, $2.50 per 100; $20.00 per 1000. Sample free.
CYCLAMEN persicum giganteum, 3-in. pots, $6 a 100
Address **J. G. Burrow,**
FISHKILL, N. Y.

Cyclamen Seeds.
KOCH'S SUPERB PRIZE CYCLAMEN,
THE FINEST STRAIN IN THE WORLD.
Bright dark red 1000 seeds $4.50
Rose of Marienthal 1000 seeds 4.50
White with carmine eye.....1000 seeds 3.75
Mont Blanc, extra 1000 seeds 6.25
Cash with order.
LUDWIG KOCH, Wandsbek, Hamburg, Germany.

TRY DREER'S
GARDEN SEEDS,
Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
HENRY A. DREER,
Philadelphia, Pa.
Mention American Florist.

TRADE MARKS. COPYRIGHTS.
SOLICITOR OF U. S. AND FOREIGN PATENTS,
Atlantic Building, Washington, D. C.
(Send sketch or model for free examination as to patentability.)

BULBS! BULBS!
Lilium Auratum, Spec. Rubrum, Spec. Album, Longiflorum, etc. Order now.
Callas, Callas, at lowest rates: Fresh Cut Cycas leaves, prices and sizes to suit all. Fresh imported Cycas, lowest prices. Camellias, Pæonias, Japan Maples, and for general Japanese stock seeds. Remember we guarantee sound delivery, still goods travel at owner's risk. Apply to
F. GONZALEZ & CO.,
Nursery and Greenhouses, 303 to 312 Wayne Street,
SAN FRANCISCO, CAL.

FLORISTS BULBS UP TO DATE

CONDITIONS. **We guarantee good, sound Bulbs of first quality or no sale,** and if not such, they can be returned at our expense, if **within five days after receipt by you.**

OUR TERMS. **We allow 4 months Credit, or 5 per cent. discount for cash in 10 days from date of bill. Bills under $25.00 are net.**

A HELPER. **We furnish free** to our customers buying bulbs of us to sell again, a nice retail catalogue with **their** name and address **alone** on it. Priced to give a good margin of profit and yet attract to **them** local orders.

YOU WANT **our Wholesale Price List before buying if you have not already had it, write for it.** Prompt answers to all letters.

WE ARE READY TO DELIVER

DUTCH HYACINTHS.	Per 100	Per 1000
Single or Double, Red, White and Blue, colors and shades separate. Your selection	$2.75	$25.00
SECOND SIZED NAMED VARIETIES (a bargain for florists). Equal quantities Red, White and Blue, our selection	4.00	35.00

Finest sorts for forcing and only those producing large spikes. Names and colors marked.

TULIPS.

SINGLE OR DOUBLE, fine Mixed Early sorts	1.00	7.50	
" " Extra Selected sorts for forcing	1.50	12.00	
" " Fine Mixed LATE sorts	1.50	12.00	
SINGLE NAMED VARIETIES, best Scarlets mixed	1.75	14.00	
" " " best Yellow mixed	2.25	20.00	
" " " best Whites mixed	1.75	14.00	
" " " best Pink mixed	2.25	20.00	
" " " best Striped mixed	1.75	14.00	

These mixtures of Named Tulips will be all true to colors specified, and embrace in each color some of the very finest sorts of that color.

We are prepared to quote **bottom prices** on all leading varieties of Florists Tulips by the 100, 1000 or 10,000 of a kind, such as **Yellow Prince, La Reine, Belle Alliance, Chrysolora, Keiserskroon, Pottebaker, etc.**

NARCISSUS, or DAFFODILS.

	Per 100	Per 1000
Von Sion (Double Yellow), First size	$1.75	$16.00
Von Sion " " Extra Selected	2.50	22.00
Double Roman (Constantinople)	1.25	10.00
Orange Phœnix (Double White and Orange)	2.00	17.50
Trumpet Major (True Siugle Daffodil)	2.00	17.50
Paper White, fine bulbs	1.00	7.50
" " grandiflora	1.25	10.00
ROMAN HYACINTHS. Pure White, 11x15	2.50	21.00
" " 11x12	2.00	16.00

LILIES.

Lilium Caudidum. Magnificent Bulbs	2.50	20.00
" Harrisii. Choice, 5x7	2.75	25.00
" " Choice, 7x9	5.00	48.00
" " (now scarce), 9x11	12.00	
WHITE CALLA. First Size Roots	8.00	
Selected, Large Roots	10.00	

FREESIA.

First Size, our own selected	1.00	7.50
Extra Large, our own selected	1.25	10.00
French grown, very good	.75	6.00
Bermuda grown (loug bulbs)	.50	4.00
ALLIUM NEAPOLITANUM. Fine large bulbs	.75	5.00
CROCUS. Fine Mixed, White, Blue, Striped Yellow aud all colors.	.30	2.50
Named Varieties, Extra bulbs	.50	4.00
LILY OF VALLEY. Fine Berliu Pips (in cold storage)	1.50	12.00
ANEMONE FULGENS. Scarlet Wiud Flower	1.50	12.00
SCILLA. Peruviana Alba	5.00	
GLADIOLUS. SHAKESPEARE, New Extra, Earliest Forcer—beautiful white, suffused carmine rose with large rose blotch, large flower of great substance	8.00	
ORNITHOGALUM. Arabicum, (Star of Bethlehem), large bulbs	1.50	12.00

WRITE FOR OUR PUBLICATIONS ON BULBS

MUSHROOM SPAWN. Finest English mill track, $9.00 per 100 pounds.

Z. DE FOREST ELY & Co.

Wholesale Bulb Growers and Importers.

1024 Market St., PHILADELPHIA, PA.

P. O. BOX 1176. TELEPHONE 3415.

REGISTERED CABLE ADDRESS: DE FOREST, PHILA.

HARRISII, ROMANS.

Our stock is unsurpassed, the bulbs are solid, thoroughly ripened and cured, well formed and up to measurement.

FREESIAS.

Select Stock. Per 100, 75 cents; per 1,000, $4.50.

PANSY SEED.

BARNARD'S FLORIST MIXTURE is popular wherever tried. Trade packet, 25 cts.; ⅛ ounce, $1.00.

W. W. Barnard & Co.

6 and 8 N. Clark Street, CHICAGO.

Mention American Florist.

HULSEBOSCH BROS., BULB AND PLANT GROWERS,

OVERVEEN, near Haarlem, HOLLAND.

	Per 100	1000
Lilium Harrisii, 4 to 5-inch in circ	$2.20	$19.00
" " 5 to 7-inch in circ	3.00	24.00
" " 7 to 9-inch in circ	5.25	47.00
" " 9 to 12-inch in circ	11.00	100.00
Lilium Longiflorum 10 per cent dearer than Lilium Harrisii.		
Roman Hyacinths, extra selected	2.50	22.00
" " top roots	3.00	25.00
Narcis. Totus Albus, extra selected	1.00	7.50
" " " Grandiflor'm, ext. s'lc'd	1.50	11.00

Fall Wholesale Catalogue now ready. Address

A. HULSEBOSCH,

P. O. Box 3118. Warehouse 58 West Street, NEW YORK CITY.

Bulbs.

New List now ready; free to applicants. Address . . .

August Rölker & Sons,

P. O. Station E, NEW YORK.

SEND for Catalogue of



JAPAN BULBS, SEEDS and SHRUBS, ARAUCARIAS, TREE FERNS, AUSTRALIAN PALM SEEDS, CALIFORIA BULBS and SEEDS to

H. H. BERGER & CO.,

Established 1878. SAN FRANCISCO, CAL.

Bulbs & Plants.

FOR CATALOGUES, ADDRESS

C. H. JOOSTEN,

IMPORTER,

3 COENTIES SLIP, NEW YORK

NOW READY.

ROMANS,
HARRISII,
NARCISSUS,
P. W. GRANDIFLORA,
CANDIDUMS.

WISCONSIN FLOWER EXCHANGE,
468 Milwaukee St., Milwaukee, Wis.

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to

Seed Bags and Catalogue Envelopes.

NEW HAVEN, CONN.

We Sell Mushroom Spawn.

LILIUM HARRISII AND DUTCH BULBS.

Special Low Prices to Florists and Dealers.

WEEBER & DON,

Seed Merchants and Growers,
114 Chambers St., New York.

Toronto.

Cattleya Dowiana was flowering in fine form among Sir D. L. Macpherson's collection the other day. It is really a most beautiful thing. Why is it not oftener seen? The lily pond in the Central Prison is a lovely sight just now, in fact the whole of the grounds are almost perfection and are worth going miles to see. In the greenhouses Mr. Houston has a nice piece of Allamanda Williamsi in bloom now, a very pretty thing and sweet scented.

It is reported that Mr. H. J. Cole, late foreman to Mr. J. H. Dunlop, is about to open a florist's store in the Rossin House block. The location ought to be as good as any in the city and it will be surprising if Mr. Cole does not make a hit.

The Toronto Industrial Exhibition—Canada's great fair—opens next week. The manager has made a raid on the Midway Plaisance and we are to have a congress of nations here on a small scale. The horticultural show promises to be good. This exhibition attracts many visitors from the neighboring states and is quite a big affair. E.

Worcester, Mass.

The phloxes in Elm Park have made a great show during the past few weeks. The late gale, however, has damaged them greatly, besides uprooting and breaking a number of fine shade trees. Superintendent Lincoln is an enthusiast on phloxes and as soon as the recent Newton Hill addition to the city parks is put in shape we may expect to see it loom up glorious as an autumn sunset with acres and acres of brilliant phloxes.

Worcester is fortunate in the possession of a splendid horticultural hall and a horticultural library numbering over 3,000 volumes. A. A. Hixon has charge of the hall. Mr. Hixon is an authority on petunias. The society is about fifty years old, and its ex-presidents comprise many men eminent in horticulture.

H. F. A. Lange, after the fashion of all growers, is "adding another house." It is 100x18 and makes now full 60,000 feet of glass in this establishment. Lange drives a span now, and many a good time his friends enjoy behind that span. They are just right for a midsummer evening's drive to beautiful Lake Quinsigamond, Worcester's famous Coney Island.

WHEN SENDING us newspapers containing items you wish us to note please do not fail to distinctly mark the item so it can be easily found, as we can not spare the time to hunt through the mass of papers sent us for unmarked items.

E. G. HILL & CO.,

Wholesale Florists

RICHMOND, INDIANA.

MOSS.

CHEAP FOR WINTER. . . .

Fine Moss for Funeral Work and Orchids. 60c. and 75c. per pound.

A. K. Savacool,

EAST STROUDSBURG, PA.

Mention the American Florist when writing to advertisers on this page.

PANSIES.

THE BEST ARE THE CHEAPEST.

My customers say that mine are the best they can buy in all that goes to make good Pansies, **size, color, form and substance.** Try them, and you will say so yourself. They are better this season than ever, and if you don't want more, get a hundred for comparison with others you grow.

The **Plants** are good as well as the strain, and for the asking I will mail you an honest sample. **Price free by mail 75 cts. per 100, or $3.00 per 500; by express $5.00 per 1000.** 50,000 ready to ship every week from now until Dec. 1st.

L. B. 496. ALBERT M. HERR, LANCASTER, PA.

New, Rare and Beautiful Plants,

ETC., ETC.

A large collection of Hothouse and Greenhouse Plants, carefully grown, at low rates.

RARE AND BEAUTIFUL EVERGREENS, ORNAMENTAL TREES, SHRUBS, &c.

ORCHIDS—a very extensive stock; East Indian, Mexican, Central and South American, etc.

Hardy Perennials, Pæonies, Phloxes, Japanese Iris, Roses, Clematis, etc. New and Standard Fruits, etc.

☞Catalogues on application.

JOHN SAUL, Washington, D. C.

HEADQUARTERS for WATER LILIES

SEEDS, TUBERS AND PLANTS, ready for shipment at all seasons and to all parts of the world. Don't fail to inspect our Columbian Exhibit at the World's Fair.

Illustrated Catalogue on application.

WM. TRICKER, DONGAN HILLS NEW YORK.

SMILAX.

EXTRA STRONG PLANTS,

$1 75 per 100; $16 00 per 1000.

HEITE FLORAL CO.,

712 Linwood Ave., KANSAS CITY, MO.

SMILAX.

1000 strings for sale at $12 50 per hundred.

GEO. CLARK, Florist,

29 West 12th Ave., DENVER. COLO.

THE NEW VIOLET,

LADY H. CAMPBELL.

Strong plants, from field, $15.00 per hundred; $2.00 per dozen.

Stock has never been diseased.

H. HEUBNER, Groton, Mass.

Roses and Smilax

2½ and 3-inch pots, strong plants.

WRITE FOR PRICES.

Kemble Floral Co.,

OSKALOOSA, IOWA.

ESTABLISHED IN 1849.

G. BENARD, ORLEANS, FRANCE.

ROSES and YOUNG PLANTS a specialty.

Large stock of fine transplanted Ampelopsis Veitchii, at reduced prices according to quantity.

Catalogue sent free to applicants.

Agents for the United States.

C. RAOUX, 296 Pearl St., New York, N. Y.

E. BENARD, P. O. Box 620, San Diego, Cal.

$20 00 buys 250 well grown Chrysanthemums from 5-inch pots.

Carnations from open ground	6 to 8 cts.
Cyclamens, large bulbs	8 to 10 cts.
Smilax, strong 3-inch pots	4 cts.
Niphetos Roses, 3½-inch pots	5 cts.
Violets, field-grown	6 cts.

McCREA & COLE, Battle Creek, Mich.

ZIRNGIEBEL'S

Giant Market and Giant Fancy

PANSIES,

are without question the most popular strains in cultivation up to date.

New Seed ready now, in trade packages of either strain, at one dollar each.

PLANTS FOR SALE.

Denys Zirngiebel,

NEEDHAM, MASS.

THE ONLY

PANSIES WORTH RAISING

ARE THOSE WHICH SELL.

Everybody here knows that my Pansies are the admiration of all, and sell at sight.

—— THIS IS TRUTH. ——

If you want to keep in the front ranks, try my New Crop Seed at $1.00 per package of about 2,000 grains; 5 pkgs. or about ½ oz. for $4. Or Plants from seed bed at $1.00 per 100, or $5.00 per 1000.

CASH WITH ORDER.

Nobody will regret a trial.

CHRISTIAN SOLTAU,

199 Grant Ave., JERSEY CITY, N. J.

The seed may also be obtained of JAS. M. THORBURN & CO., 15 John St., N. Y.

PANSIES.

Best mixture of German bedding varieties, now ready, per 1000 $5.00; per 100 60c.

We have also separate colors, ready in two weeks.

BRAUER & RICHTER,

McCONNELSVILLE, OHIO.

SUPERB PANSIES.

My "Rainbow Mixture"

is a combination of the very best strains in existence, and is sure to give satisfaction. Young plants 65 cents per 100 by mail; $5 00 per 1000 by express. Cash with order or C. O. D.

GEORGE CREIGHTON, Poughkeepsie, N. Y.

SPECIAL SEPTEMBER OFFER.

Extra Pansy Seed.

A grand collection of giant flowering varieties, carefully selected; receive high praise from florists; no finer strain offered anywhere. A liberal offer. Trade pkt., 500 seeds, 25 cts.; 3 pkts. 50 cts.; 7 pkts. $1 00.

JOHN F. RUPP, Shiremanstown, Pa.

COLUMBIAN PANSIES.

A limited supply of plants during the season, at 70c. per 100; $5.00 per 1000. It will pay you to send your address to

W. J. ENGLE,
Box 211, Dayton, Ohio.

SMILAX.

A large stock of strong well grown plants from 2¼-inch pots, at $1.50 per 100; $12.00 per 1000.

PANSY PLANTS for fall. Choicest strains.

CYCLAMENS, both 1 and 2 year bulbs. Prices on application.

CLEMATIS, large flowering, for fall delivery. A very large stock and assortment. Write for prices I can suit you both on plants and prices.

F. A. BALLER, Bloomington, Ill.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

A FIRST-CLASS
Certificate of Merit
—TO—
B. BAYERSDORFER & CO.
—FOR—
The Best Exhibit of
FLORISTS' SUPPLIES.

The only Certificate of Merit awarded for Florists' Supplies at the S. A. F. Convention at St. Louis.

We offer you the same quality of goods as comprised the above exhibit.

First-Class in Quality.
Reasonable in Price.

H. Bayersdorfer & Co.,
56 N. 4th St.,
PHILADELPHIA, PA.

Wholesale Only. Catalogues Ready.

Siebrecht & Wadley,
ROSE HILL NURSERIES,
NEW ROCHELLE, N. Y.
Palms,
ORCHIDS
Roses,
and New Plants.
FRESH DRACAENA CANES NOW READY.

ORCHIDS.
The Finest Stock in the World.
SANDER'S,
ST. ALBANS,
ENGLAND.
Thirty minutes from London.
Our Mr. A Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

Established and Imported
ORCHIDS.
Ig. FORSTERMAN,
Newtown, N. Y.

Special Offer to American Trade.

LOUIS DE SMET,
NURSERYMEN. GHENT, BELGIUM,
OFFER AS SPECIALTIES:
Palms, Azalea indica and mollis, Araucaria excelsa (thousands), Bay Trees, Tuberous Begonias, Gloxinias.
☞ New Trade List on application. . . .

HOW TO GROW CUT FLOWERS.
A PRACTICAL TREATISE ON
THE CULTIVATION OF THE ROSE,
And Other Flowering Plants for Cut Flowers, sent to any address upon receipt of $2.00. M. A. HUNT, Terre Haute, Ind.

Cape Flowers, new crop in best white quality at $1.00 the lb.; 10 lb. lots, $9 net.
Cycas Leaves (Sago Palms), natural prepared, equal to fresh cut in appearance, from 28-in. upwards, at 40c., 45c., 50c., 60c., 75c. and $1.00 each, according to length.
Metal Designs, Wreaths, Crosses, Anchors, etc. in the latest French styles, from 50 cents net apiece upwards.
Baskets of all styles, Plain and Fancy, for School Commencements, Dinners, Receptions, Favors, etc.
Supplies of all kinds, such as Bouquet Papers, Wax Paper, Foil, Immortelles, Letters, Wire Designs, Funeral Sheaves, Doves, etc.
For prices consult our
Trade Catalogue, mailed free.
August Rölker & Sons,
136 & 138 W. 24th St., P. O. Station E. **New York.**

TO STOTT GARDEN IMP'T CO.,
136 Liberty Street, New York.
Dear Sirs:—We have been using your Distributer and Killmright for six months and consider it a good thing. It is the best thing ever got out. For roses it is particularly good. It cures a rose plant of black spot and mildew and keeps them in a healthy and growing condition. We never use tobacco smoke now. It will certainly ultimately kill the mealy bug. We will keep it right along and want nothing else.
Signed BOLANZ BROS., Akron, O.
See Special Offer Aug. 3 and 17.

S. A. F. REPORTS.
GOOD READING CHEAP.
I have on hand a number of surplus copies of the reports of proceedings at the New York, Buffalo and Boston Conventions of the Society of American Florists. All parties wishing to procure copies of either or all of these can have them by applying and enclosing 25 cents in stamps for each, as long as they last.
Address WM. J. STEWART, Sec'y,
67 Bromfield Street, BOSTON, MASS.

DO YOU KNOW . .
THAT YOU CAN GET
20 CANE STAKES FOR 1 CENT
A foot in length by simply using a sharp saw on a bundle of our best.
BRACKENRIDGE & CO.,
304 W. Madison St., BALTIMORE, MD.

SMILAX AND ASPARAGUS
TRAINED ON GREEN
SILKALINE
Are in the best possible condition for the market. For particulars address
JOHN C. MEYER & CO.,
289 DEVONSHIRE ST., BOSTON, MASS.

SEND FOR A COPY
—OF OUR—
TRADE DIRECTORY
AMERICAN FLORIST CO., CHICAGO


WHITE DOVES
FOR FLORISTS.
Largest and finest stock in the United States. Write for prices to
S. J. RUSSELL,
850 Montgomery St., Jersey City, N. J.
FOR SALE BY Messrs. F. E. McAllister, A. Herrmann, N. Steffens and Reed & Keller, New York; W. C. Krick, Brooklyn, N. Y.; H. Bayersdorfer & Co., Ernst Kaufmann and Marschuetz & Co., Philadelphia, Pa.; C. Ribsam & Sons, Trenton, N. J.; J. M. McCullough's Sons and B. P. Critchell & Co., Cincinnati, O.; J. C. Vaughan, Chicago, Ill.; Wisconsin Flower Exchange and Currie Bros., Milwaukee, Wis.; C. A. Kuehn, S. Mount & Co., C. Young & Sons Co., Wm. Ellison and Jordan Floral Co., St. Louis, Mo.; Ed. S. Schmid, Washington, D. C.; G. W. Currey & Co. and Eckhardt & Co., Nashville, Tenn.; T. W. Wood & Sons, Richmond, Va.; U. J. Virgin, New Orleans, La.; D. B. Long, Buffalo, N. Y.; F. C. Huntington & Co., Indianapolis, Ind.; J. A. Simmers, Toronto, Ont.

MARSCHUETZ & CO.,
Florists' Supplies,
23 & 25 N. 4th St., PHILADELPHIA, PA.
Send for Catalogue.

ERNST KAUFMANN & CO.,
Florists' Supplies,
113 NORTH 4TH STREET,
PHILADELPHIA, PA.



Kills Mildew and Fungus Growth.
What does?
GRAPE DUST.
Sold by Seedsmen.

Send orders for . . .
CLEAR CYPRESS
Greenhouse Material
from bottom of gutter up.
Correspondence solicited. Estimates cheerfully furnished.
LYMAN FELHEIM, ERIE, PA.

OUR
Sash Lifter AND Hinges
will do the work and cost you less than any other. Send your name and address and we will mail you description and price.
BAY STATE HARDWARE CO.
272 Freeport Street, BOSTON, MASS.

TOBACCO STEMS AND DUST.
STEMS—In 100 lb. bales, $1.00. In 500 lb. bales, $4.00. By the ton, $10.00.
TOBACCO DUST—A most valuable insecticide for Violets, Roses, Chrysanthemums, etc; also for fumigating; in 100 lb. lots, $2.00, f. o. b.
Pye & Mueller,
P. O. Box 1066. *KINGSTON, N. Y.*

Boston.

Cut flower trade has been very dull during the week, with a slight improvement apparent during the last day or two. Gladioluses have gone down, away down, and asters, on the other hand, have advanced. Most outdoor stuff suffered considerably in the recent heavy winds and rain. Roses are poor in quality, and the only really choice flower in the market at this moment is lily of the valley, but it sells very slowly. Allamandas, gloxinias and tuberous begonia blooms are available for showy work.

The Growers' Market has been moved from 65 Bromfield street to 1 Park street, which is a much more roomy and convenient quarters. This place was for many years occupied by J. P. Clark as a florist store. Clark has now gone to Dartmouth street. The market is situated under a church, an indication that the Boston growers aim to take a high moral stand, a supposition which is still further strengthened by the rule which refuses admission to the wicked commission men, and by the sign displayed upon the walls, viz., "No smoking." This world is getting better and better every day.

David Allan has bought the estate of John B. Bailey at Cliftondale, and proposes to go into the raising of rare exotics, hardy shrubs and herbaceous plants. There is considerable glass on the place, and Davie's friends think that he has made a good move.

Chas. Ingram has leased the Proctor place at Reading.

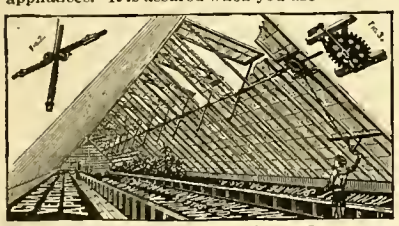
Jas. Buchanan, of Edinburgh, Scotland, the orchid fancier, is visiting Boston. He will go to the Chicago exhibition.

A. G. Dibble, of Sly, Dibble & Co., London, England, dealers in horticultural supplies, is also in town.

Winfried Rolker has been canvassing the Hub this week. He finds that there is some life left in the trade here yet, and is well pleased with his success.

UNIFORM VENTILATION

is something you cannot secure with all ventilating appliances. It is assured when you use



The Champion Ventilating Apparatus

SIMPLE, DURABLE, EFFICIENT, CHEAP.

☞ Circular is yours for the asking. Address

AMERICAN ROAD MACHINE CO.,
. . . . Kennett Square, Pa.

Mention American Florist.

EVANS' IMPROVED

CHALLENGE VENTILATING APPARATUS

Write for Illustrated Catalogue.

QUAKER CITY MACHINE WORKS. Richmond, Ind.

FLORISTS' HOSE,

Made by E. W. Holt, member of the Society of American Florists.

Goodyear Rubber Store,

2 W. 14TH ST. NEW YORK.



Mention American Florist.

THE "LOCKLAND" Sash Bars

ARE ALWAYS SATISFACTORY.

This cut represents our improved Clipper Bar for Butted Glass roof—putty to be used under glass only.

GUTTER MATERIAL, RIDGES, SASH, ETC.

The finest CLEAR CYPRESS used.

Write for circulars and estimates. . . .

LOCKLAND LUMBER CO.

. Lockland, O.

"Standard" Flower Pots.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Pottery Company,

BRANCH WAREHOUSES: 713, 715, 717 & 719 Wharton St., Philadelphia, Pa.
Randolph Ave. and Union St., Jersey City, N. J.
Jackson Ave. and Pearson St., Long Island City, L. I.

STANDARD FLOWER POTS

Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.

A. H. HEWS & CO., N. Cambridge, Mass.

Standard Flower Pots.

We wish to notify the trade that this summer we have made great improvements in machinery and have also discovered a better clay, so that we are now manufacturing FLOWER POTS that can't be beat. We have the assurance of a host of our customers, that our make are the best in the market. Bear in mind that freight rates are very low from this point, and we claim that our way of packing saves you freight charges. Send for circulars, or we will send you figures on any quantity you want.

SIPFLE, DOPFFEL & CO., SYRACUSE, N. Y.

STANDARD FLOWER POTS.

OLD RELIABLE MAKE OF

ELVERSON, SHERWOOD & BARKER.

Write for Catalogue and Price List.

PITTSBURGH CLAY MFG. CO. New Brighton, Pa.

STANDARD FLOWER POTS

Our new **Pottery,** new **Machinery,** the very **best Clay** in the **Country,** and our new **Patent Kilns,** all combined, make the **best Standard Pot in the market.** Send for price list.

PARMENTER MF'G COMPANY,

GEORGE MESSINGER, Manager. East Brookfield, Mass.

IMPROVED GLAZING.

Zinc Joints for butting glass without laps. No leakage. No sliding of glass. Practically air tight. Keeps out cold winds, thereby saving fuel. No laps, saves enough glass to pay for the zincs. No breakage of glass on account of frost or ice. Some of the largest growers in the country are using "Gasser's Patent Zinc Joints" with entire satisfaction. Write for sample and price list.

J. M. GASSER, FLORIST,
101 Euclid Ave.. CLEVELAND, O.

VICTOR SPRAY PUMP.

The most wonderful pump ever invented. Requires no foot-rest or support. Send for prices.

HENION & HUBBELL, 55 N. Clinton St., Chicago, Ill.

STANDARD FLOWER POTS.

Price List.

2 -inch,	Per 1000	$3.25	7-inch,	Per 100	$ 3.50
2½-inch,	"	3.50	8-inch,	"	5.00
2½-inch,	"	4.00	9-inch,	"	7.50
3 -inch,	"	5.00	10-inch,	"	10.00
3½-inch,	"	7.25	11-inch,	"	15.00
4 -inch,	"	9.00	12-inch,	"	20.00
5 -inch,	"	13.80	14-inch,	"	40.00
6 -inch,	"	22.00	16-inch,	"	75.00

Terms cash, f. o. b. Address

HILFINGER BROS. POTTERY, Fort Edward, N. Y.

WHEN writing our advertisers please use one of your printed business letter heads or enclose your business card.

TO TAKE PLACE OF WIND MILLS

HOT AIR PUMPING ENGINES

A Windmill

Is unreliable because it depends upon the elements for its power; hydraulic rams also depend upon favorable conditions and waste as much water as they secure. Steam pumps require skill and hand pumps demand labor and time. The

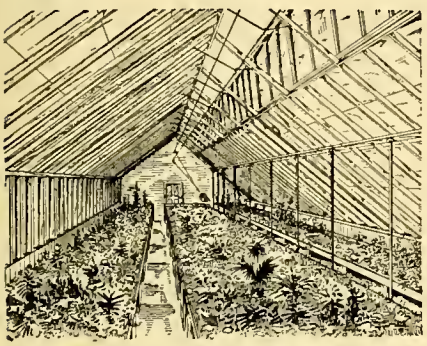
DE LAMATER-RIDER OR DE LAMATER-ERICSSON Hot-Air Pumping Engines

are especially designed for pumping water, and from shallow streams or any kind of well. They are simple, safe and reliable, require no steam and have no valves. They require very little heat to operate them, and can be arranged for any kind of fuel.

Send for illustrated catalogue to

THE DE LAMATER IRON WORKS,
87 South Fifth Av.,
NEW YORK, N. Y.

THE CHAMPION



Automatic Ventilator.

The cheapest, easiest to operate, and by far the best machine in the market. Don't buy a Ventilator until you have seen my illustrated descriptive circular, which will be sent you free, giving prices, etc. Also **Champion Soil Pulverizer and Sifter.**

Address, **E. E. WOLF,**
Box 114. SPRINGFIELD, O.

CUTS!



Wood Engraving,
Zinc Etching,
Half-Tone,
Wax Engraving, Photo-Engraving,
Designing.

MANZ & CO.,
183 Monroe Street, CHICAGO. ENGRAVERS.

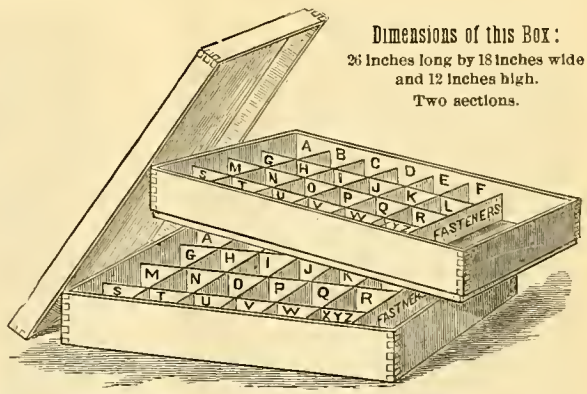
J. N. STRUCK & BRO.

Manufacturers of

• CYPRESS •
Greenhouse Material,

LOUISVILLE, KY.





Dimensions of this Box:
26 inches long by 18 inches wide and 12 inches high.
Two sections.

With an order for 500 letters, we furnish a box made of wood nicely stained and varnished, such as is represented in the cut.

BOSTON FLORIST LETTER CO.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1½-in and 2-in. 2.00 per 100. Patent fastener with each letter.

OUR NEW SCRIPT LETTER, $4.00 per 100.

N. F. McCARTHY, Treas. & Mangr. | Address 13 Green St., **Boston, Mass.**

Address all correspondence to 1 Music Hall Place.

We have a new **FASTENER** which we consider a decided success. Any customers having old style fasteners which they wish to exchange, can do so without additional cost by writing us.

AGENTS.

Marschuetz & Co., 25 N. 4th St., Phila., Pa.
A. Rolker & Sons, New York.
F. E. McAllister, 22 Dey St., New York.
A. D. Perry & Co., 33 Warren St., Syracuse, New York.
Ernst Kaufmann & Co., 113 N. 4th St., Phila.
H. Bayersdorfer & Co., Philadelphia, Pa.
A. C. Kendal, 115 Ontario St., Cleveland, O.
J. A. Simmers, Toronto, Ont. Agent for Canada.
E. H. Hunt, 79 Lake St., Chicago, Ill.
Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.
H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.
T. W. Wood & Sons, 6th and Marshall Sts. Richmond, Va.
Jas. Vick's Sons, Rochester, N. Y.
C. A. Kuehn, 1123 Pine St., St. Louis, Mo.
D. B. Long, Buffalo, New York.
C. F. Huntington & Co., Indianapolis, Ind.

These Letters are handled by all the Wholesalers in Boston.

WARNING.

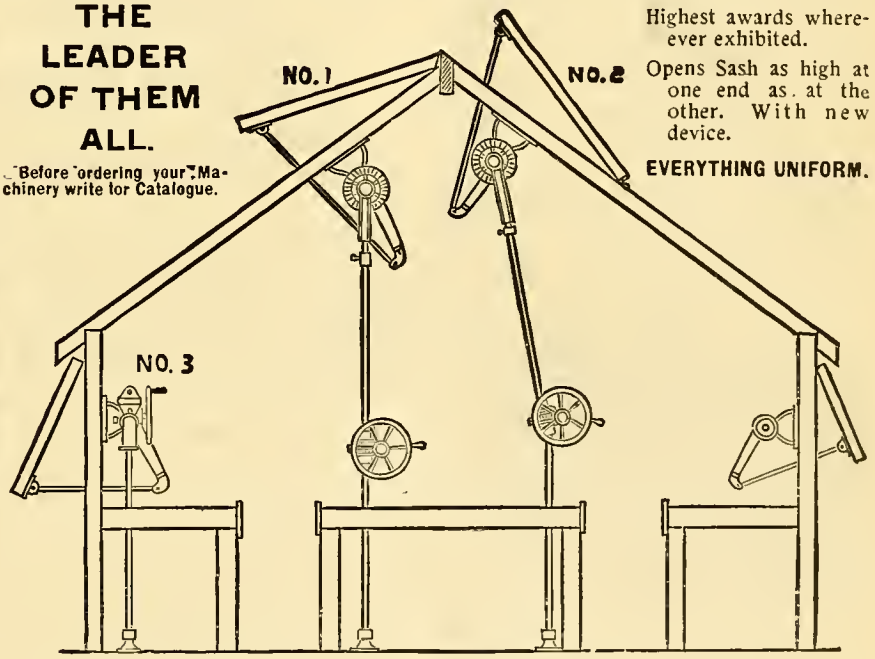
A party in Williamsport, Pa., named Chas. E. Montgomery, is making and offering for sale letters which are an infringement upon our patent, and are much inferior to those manufactured by us. We have notified them of suits unless they desist at once. Buy no letters except through our authorized agents.

BOSTON FLORIST LETTER CO., 1 Music Hall Place, Boston, Mass.

STANDARD VENTILATING MACHINERY,

THE LEADER OF THEM ALL.

Before ordering your Machinery write for Catalogue.



Highest awards wherever exhibited.

Opens Sash as high at one end as at the other. With new device.

EVERYTHING UNIFORM.

E. HIPPARD, YOUNGSTOWN, OHIO.

THE PERFECT DRAINAGE
BENCH TILE

For circulars, etc., address

W. P. Wight, Upland Green Houses,
Send your business card. MADISON, N. J.

When writing to any of the advertisers on this page please mention the American Florist.

STANDARD HOSE MENDER.



The only Mender using ordinary galvanized wire No. 14, instead of expensive bands. Any person can handle it with perfect ease. Thousands in use and all testify to its Wonderful Merits.

Sample Box, by Mail, 50 cts.
E. HIPPARD, Youngstown, Ohio.

Chicago.

Business shows a tendency to improvement, though it is quiet yet. Roses are greatly improved, and also carnations, which continue scarce. The dearth of carnations is likely to be felt more, as asters are falling off in quantity; between dry weather and grasshoppers the supply is suffering a good deal. The continued drouth, which has now lasted for about nine weeks, is affecting the florists seriously, and many are now taking up their carnations, as the only means of saving them. Dahlias, cosmos and other autumn flowers will amount to very little, while the plague of grasshoppers is more like Kansas than Illinois. Asters and carnations are especially suffering from their ravages.

A limited quantity of single violets has appeared, but they are very small. Smilax is scarce; there is very little around Chicago and the main supply comes from eastern points.

John B. Deamud & Co. have moved from the rear to the front of the Cut Flower Exchange, where they have a large and more convenient location.

Paul Cadres has added a new rose house 18x100 to his place at Riverside.

Mr. and Mrs. Wm. Clark, Colorado Springs, Colo., are now visiting Chicago.

Obituary.

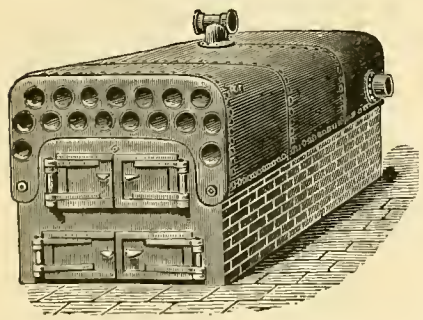
Friends of Wm. Thompson, Jr., of Clovenfords, near Galashiels, Scotland (and they are many, even on this side of the Atlantic) will be sorry to hear of his demise. He was a man highly esteemed by all in the trade for his genial brotherly qualities as well as for his wonderful skill in grape culture. To hear him talk of grapes and orchids was a rare treat, never to be forgotten by those who listened to him. He leaves a wife and four children.

ESTABLISHED 1854.

DEVINE'S BOILER WORKS.

THE FLAT TOP TYPE

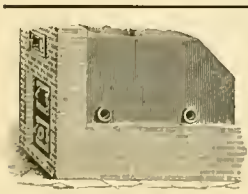
Wrought Iron Hot Water Boilers



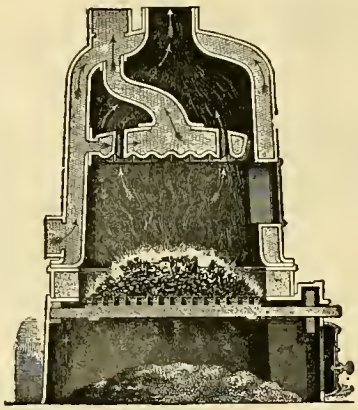
Capacity from 350 to 10,000 feet of four-inch pipe.
SEND FOR NEW LIST.

FRANK DAN BLISH, Att'y,

OFFICE, 189 STATE STREET.
WORKS, 66th & WALLACE STREETS,
CHICAGO.



GREEN-HOUSE HEATING,
MYERS & CO.
1518 & 1520 S. 9th St.,
PHILADELPHIA.
Send for catalogue and price list.



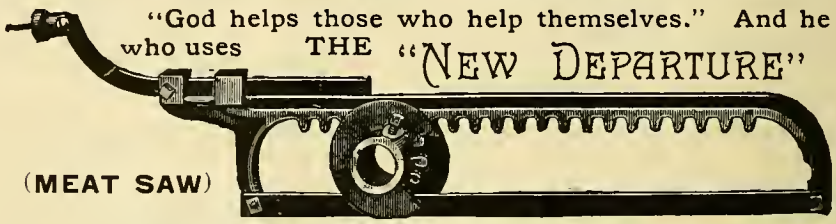
JOHN A. SCOLLAY,
74 & 76 MYRTLE AVE.,
BROOKLYN, N. Y.

GREENHOUSE HEATING
— AND —
Ventilating Apparatus.

Patentee and Manufacturer of
HOT WATER BOILERS,
GREENHOUSE PIPE,
PIPE FITTINGS,
VALVES, TANKS, ETC.

☞ Estimates of cost given, and Illustrated Catalogue furnished on application.

"God helps those who help themselves." And he who uses THE "NEW DEPARTURE"



(MEAT SAW)

VENTILATING APPLIANCE

helps himself and those who help him in his labors, and is therefore doubly blessed. Send for price and description.

J. D. CARMODY, Evansville, Ind.

Or call and see the man and machine at his greenhouse office, located on the lawn west front of Horticultural Building, World's Fair grounds, Chicago, Ill.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO,

NATURAL GAS MADE GLASS

FOR GREENHOUSES.

Write for latest prices.

FRENCH GLASS For CONSERVATORIES, ROSE HOUSES, Etc. Etc.

VANHORNE, GRIFFEN & CO.,

Importers of PLATE and WINDOW GLASS. Manufacturers of BENT GLASS and FRENCH MIRRORS.

131-133-135-137 FRANKLIN STREET, NEW YORK.

Note—Imported Glass is used in the best grade of Greenhouse building.

GLASS

which is absolutely perfect for modern greenhouse construction.

ROCK BOTTOM PRICES.

Send for Estimate. Satisfaction Guaranteed

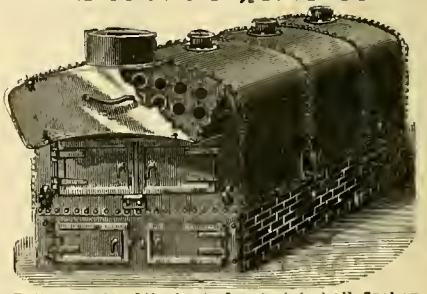
REED GLASS CO.

65 WARREN STREET and
46, 48, & 50 COLLEGE PLACE,
—NEW YORK CITY.—

THE GREAT ANTIPEST.

For particulars, see next week.
R. W. CARMAN, GEN'L AGT.,
291 Amity Street, FLUSHING, Queens Co., N. Y.

KROESCHELL BROS.
IMPROVED
Greenhouse Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around front, sides and back). Write for information.

CHAS. B WEATHERED, PREST. EDMUND WEATHERED, VICE PREST AND TREAS. SAMUEL BURNS, SEC'Y
INCORPORATED 1893.



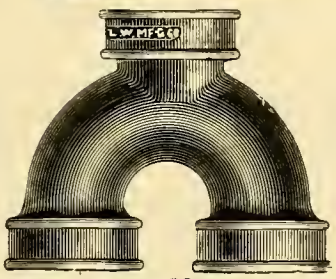
Thos. W. Weathered's Sons,
HORTICULTURAL ARCHITECTS, & BUILDERS,
AND HOT WATER ENGINEERS.
FACTORY, 196 to 240 Orient Ave. Jersey City, N.J.
244 Canal St. NEW YORK.
CHICAGO OFFICE: 619-620 Manhattan Bldg.

ROYAL HEATERS
TRADE MARK
UTICA, N.Y.

HART & CROUSE,
UTICA, N. Y.

Greenhouse Pipe and Fittings.





Large quantities of our Pipe are in use in Greenhouses throughout the West, to any of which we refer as to its excellent quality.

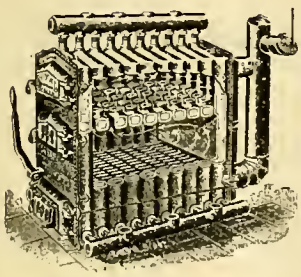
Pipe can be easily put together by any one, very little instruction being needed.

GET THE BEST.

Hot-Water Heating, in its Economy and Superiority, will repay in a few seasons its cost.

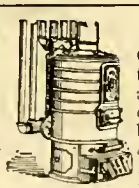
Mention American Florist.

L. WOLFF MFG. CO., 93 to 117 W. Lake Street, CHICAGO.
WRITE FOR ILLUSTRATED CIRCULAR.



Gurney

HOT WATER HEATERS AND RADIATORS FOR HEATING Dwellings, Public Buildings, Etc. BY HOT WATER CIRCULATION.


GURNEY

The marked superiority of the Gurney Heaters which is manifested in all severe trials, is now a matter of history. There is no question about their being the best. For reasons, see our book "*How Best to Heat Our Homes.*" It is free.

Gurney Hot Water Heater Co.
HEAD OFFICE:
163 Franklin St., Boston, Mass.
BRANCH OFFICE:
59 Wabash Ave., Chicago, Ill.
SELLING AGENCIES:
Johnson & Co., 71 John St., New York.
I. C. F. Trachsel, 246 Arch St., Philadelphia.


DOUBLE CROWN.

ESTABLISHED 1866.
FLORISTS WIRE DESIGNS
MANUFACTURED BY
N. STEFFENS
335 EAST 21ST ST. NEW YORK.

HAIL LOCK THE DOOR BEFORE THE HORSE IS STOLEN. DO IT NOW.
JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

D. H. ROBERTS,
159 & 161 South Fifth Ave., New York.
NATURAL GAS MADE GLASS,
for Rose Houses, Conservatories, etc., etc.
Look at our World's Fair Exhibit in Horticultural Building.

FLORAL DESIGNS
The Cut Flower Worker's Friend. Fine book of 160 pages. Send $3.50 for it, to
J. HORACE McFARLAND, Harrisburg, Pa.

Always mention the AMERICAN FLORIST when writing to advertisers.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers

Index to Advertisers.

Abel C C & Co.....112
Adv. Rates, etc.....110
American Boiler Co ..120
American Road Mach Co.....116
Andorra Nurseries.....112
Buller F A 114
Barnard W W & Co.....113
Bay State Hdw Co.....115
Bayersdorfer H & Co ..115
Benard G 114
Berger H H & Co.....113
Bock Wm A.....108
Bonsall Jos E & Son ...111
Boston Letter Co 117
Brackenridge & Co.....115
Brauer & Richter.....114
Brown & Canfield.....109
Burns & Raynor.....111
Burrow J G.....112
Burton John.....109
Carman R W.....118
Carmody J D.....118
Chandlee Geo H 112
Clark Geo.....114
Coles W W 109
Corbrey T J 111
Creighton Geo.....114
Deamud J B & Co.....110
De Cock Jules.....109
De Lamater Iron Wks.117
De Mulder Th D.....109
De Smet Louis.....115
Devine's Boiler Wks..118
Dillon J L.....109
Dorner Fred & Son.....108
Dreer H A 112
Elliott W H.....110
Ellison Wm.....111
Ely Z De Forest & Co..113
Engle W J.....114
Felheim Lyman.....115
Forstermann L.....115
Gasser J M 116
Gonzalez & Co.....112
Goodyear Rubber Store 116
Griffith N S.....108
Gurney Heater Co.....117
Hall Ass'n.....119
Hammond Benj.....115
Hancock Geo 108
Hart James.....111
Hart Michael A.....111
Hart & Crouse.....119
Hartford H E.....110
Heini Jos.....109
Helle Floral Co.....114
Henion & Hubbell.....116
Herendeen Mfg Co.....120
Herr Albert M.....114
Hews A H & Co.....116
Hiltinger Bros.....116
Hill E G & Co.....111
Hippard E 117
Hitchings & Co.....120
Hooker H M Co.....118
Horan Edw C.....111
Huebner H.....114
Hulsebosch Bros.....113
Hunt E H.....111
Hunt M A.....109 115
Hunter Frank D....110 111
Jennings E B.....109
Joosten C H.....113
Kaufmann Ernst & Co.115
Kemble Floral Co ...114
Kennicott Bros.....111
Koch Ludwig.....112
Koffman E 110
Kroeschell Bros ...118
Kuehn C A.....111
La Roche & Stuhl.....110
Lockland Lumber Co...116
Lombard R T 108
Long Dan'l B.....114
Lonsdale Edwin.....108
Lord & Burnham Co....120
McCarthy N F & Co....111
McCren & Cole.....114
McFarland J H.....119
McFarland J H Co.....110
MacBean A S.....109
Manz J & Co.....117
Marschuetz & Co.....115
Meyer John C & Co ...515
Michel Plant & Bulb Co 112
Milang Bros.....111
Miller Geo W.....109
Moffatt G J.....113
Moninger Jno C 120
Myers & Co.....118
Niles Centre Floral Co.111
Ouwerkerk P.....109
Parmenter Mfg Co.....116
Peck & Sutherland.....111
Pennock C J.....108
Pennock F M. 108
Pennock Sam'l S.....110
Pierson A N.....109
Pierson F R Co.....112
Pittsburg Clay Mfg Co.116
Prince A G & Co 111
Probst Bros Floral Co..108
Pye & Mueller.....115
Quaker City Mach Co..116
Randall A L 111
Raoux C.....111
Reck John 109
Reed Glass Co.....118
Reinschneider Ernst..112
Roberts & Hl.....119
Roehrs Theo.....111
Rolker A & Sons....113 115
Rupp John F.....111
Russell S J.....115
Sander & Co 115
Saul John.....114
Savucool A K.....111
Scollay John A. 118
Sheridan W F.....111
Shelmire W R.....108
Sherwood Hall Nur Co.112
Siebrecht & Wadley....115
Sipple, Dopffel & Co....116
Situations, wants.....108
Smith Nathan & Son....109
Soltau Chr.....114
Starr Chas T.....108
Steffens N.....119
Stewart W J Sec'y.....115
Stott Garden Imp Co...115
Struck J N & Bro.....117
Sunderbruch H L.....111
Tracht J A & Son 108
Tricker Wm.....114
Van Horne Griffen & Co 118
Vaughan J C.....112
Vick & Hill.....108
Weathered's Sons T W.119
Weeber & Don.....113
Welch Bros.....111
Whilldin Pot Co 116
Wight W P.....117
Winter N D.....108
Wisconsin Flower Ex..113
Wolf E E.....117
Wolff L Mfg Co.....119
Wood Bros.....109
Young John.....111
Young C & Sons Co....109
Zirnglebel D.....114

YOU CAN never invest $2 to better advantage than in a copy of our trade directory and reference book.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

CYPRESS GREEN HOUSE MATERIAL

CLEAR CYPRESS SASH BARS

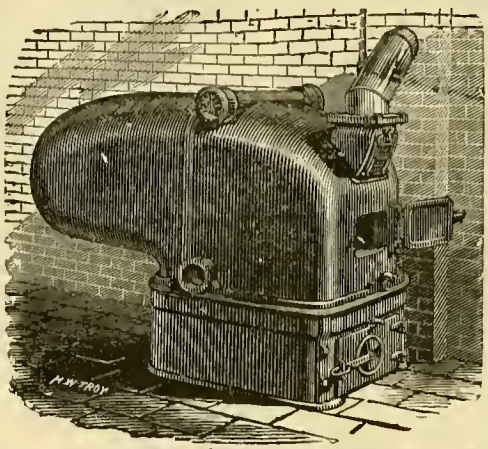
HOT BED AND VENTILATING SASH

JOHN C. MONINGER,
297 Hawthorns Ave.,
CHICAGO, ILL.

GoodelHH Mass Agri Col

GREENHOUSE HEATING AND VENTILATING

Horticultural Architecture and Building.



HITCHINGS & CO.

Established 1844.

233 Mercer St., New York.

FIVE PATTERNS OF BOILERS.

NINETEEN SIZES.

Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc., of Iron Frame Construction, Erected complete, or the Structural Iron Work shipped ready for erection.

Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Top.

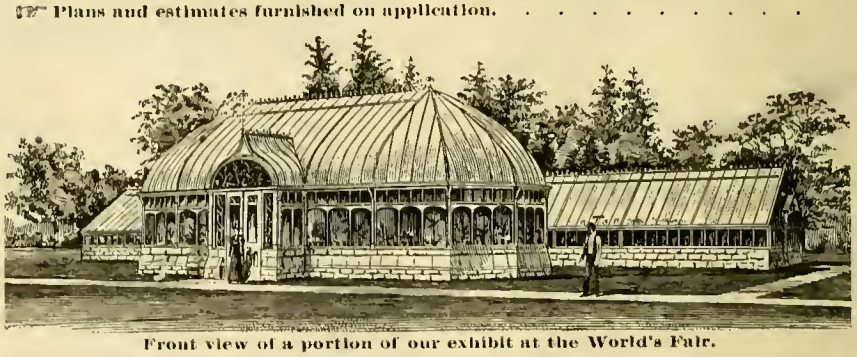
SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.

LORD & BURNHAM CO.

Horticultural Architects and Builders,

STEAM AND HOT WATER HEATING ENGINEERS.

☞ Plans and estimates furnished on application.



Front view of a portion of our exhibit at the World's Fair.

. . . SEND FOUR CENTS POSTAGE FOR ILLUSTRATED CATALOGUE. . . .

LORD & BURNHAM CO., Irvington-on-Hudson, N. Y.

STEAM · AND · HOT · WATER · HEATERS

FOR

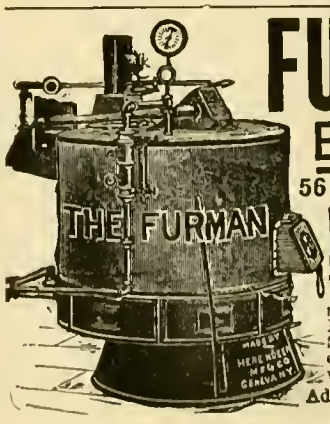
GREENHOUSE HEATING

156

DIFFERENT SIZES.

American Boiler Company.

BOSTON,	NEW YORK,	CHICAGO,	DENVER,	SAN FRANCISCO.
195 Ft. Hill Square.	94 Center St.	34-36 Dearborn St.	Mining Exchange Bldg.	80 Crocker Bldg.



FURMAN BOILERS

Economical — Substantial — Safe.

56 STYLES AND SIZES—BURNS HARD OR SOFT COAL.

Modern Hot-Water Heating

These Boilers have a high reputation for Staunchness, Durability and Safety, and are GREAT COAL SAVERS. Minimum Friction and Maximum Velocity only obtained by VERTICAL WATER CIRCULATION. Send for new 150-page book giving full particulars and a great deal of valuable information on modern Heating and Ventilation, with plans and tables for correct hot-water work. Mailed free.

Address HERENDEEN MFG. CO., 26 Vine Street, GENEVA, N. Y.

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. IX **CHICAGO AND NEW YORK, SEPTEMBER 14, 1893.** **No. 276**

THE AMERICAN FLORIST

Copyright 1893, by American Florist Company. Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.
322 Dearborn Street, Chicago.

Subscription, $1.00 a year. To Europe, $2.00.

Address all communications to

AMERICAN FLORIST COMPANY.
P. O. Drawer 164, CHICAGO.

Eastern Office: 67 Bromfield St., Boston.

SOCIETY OF AMERICAN FLORIST.

WM. R. SMITH Washington, D. C., president; PROF. WM. TRELEASE, St. Louis, Mo., vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass, secretary; M. A. HUNT, Terre Haute, Ind., treasurer.

The new officers, to be installed Jan. 1, 1894, are: J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; secretary and treasurer the same as for 1893. The next annual meeting will be held at Atlantic City, N. J., August, 1894.

CONTENTS.

Mass. Hort. Society annual exhibition 121
Aquatics 122
Notes on propagation 122
Veranda boxes (illus) 123
Roses—Seasonable notes 124
Kentias Belmoreana and Forsteriana 124
Carnations—Seasonable hints 124
—An unfortunate blunder 124
Miscellaneous seasonable hints 124
How to make "rubbers" break naturally (illus) 125
Philadelphia 125
New York 125
Boston 126
Chicago 126
Baltimore 126
St. Louis 126
Buffalo 126
Floral designs 127
Catalogues received 130
The seed trade 132
—Knowledge in the seed trade 132
—Notes 133
Toronto 134
Fine asters 136
Newport, R. I. 138

Society of American Florists.

President W. R. Smith has appointed Mr. J. C. Vaughan of Chicago to fill the vacancy on the executive committee of the Society caused by the election of Mr. J. T. Anthony as President for 1894.

DO YOU WANT a list of the leading cemetery superintendents? You will find such a list in our new trade directory and reference book.

PLEASE WRITE on your printed letter head when addressing our advertisers. If you have no printed letter head, then enclose your business card or bill head.

THOSE WHO WISH to obtain copies of the proceedings of the recent Hort. Congress should register their names with Clarence E. Young, Sec'y World's Congress Auxiliary, Art Institute, Chicago, saying they desire the horticultural section.

Massachusetts Horticultural Society—Annual Exhibition.

The annual exhibition of the Massachusetts Horticultural Society opened at noon on Wednesday September 6, continuing until the evening of the following day. For the first time the exhibition was free to the public. The weather was superb and the hall was full, but at no time overcrowded. The lower hall was devoted to cut flowers only, and these were shown in great profusion. The display of asters, dahlias, and zinnias was very large and in quality unexcelled. The zinnias especially show a wonderful improvement in color and form from those of former years. E. Shepard, F. B. Hayes, Mrs. E. M. Gill, A. L. Cain, F. S. Davis and Wm. Patterson were the principal exhibitors of zinnias. The extensive show of asters by Chas. A. Yates was noticeable for the quality of the blooms and for the skillful arrangement of colors. E. S. Converse, F. B. Hayes and Wm. Patterson were also among the aster exhibitors.

Dahlias in all varieties, show, pompon, single and cactus, were remarkably good. The collections from John Parker and W. C. Winter were about as near perfection as possible. John Parker's "Constancy" took the first prize for specimen bloom and W. C. Winter's "John Bennett" received second prize. Tuberous begonias, petunias, marigolds, nasturtiums and dianthus were all shown in good quality by various exhibitors. Dianthus seems to be at a stand still. As shown here there is apparently no appreciable improvement over those shown ten years ago.

Among the most interesting features of the cut flower department was the display of wild flowers. It is remarkable as well as gratifying to note the interest taken by the public in these little gems from the woods and fields. Mrs. P. D. Richards has always taken the lead in native flowers but on this occasion she was distanced by two young misses in their teens, Eleanore and Molly Doran, who took first prize, a fact which doubtless pleased Mrs. Richards as much as though she had won it herself. The large centre table in the hall was made beautiful with a brilliant display of French cannas from D. Fisher, and the stage was banked with flowers and foliage from the F. B. Hayes estate, arranged by Mr. James Comley. The sides of the upper hall were entirely filled by the four large groups of stove and greenhouse plants from Dr. C. G. Weld, K. Finlayson, gardener, N. T. Kidder, Wm. Martin, gardener, Geo. A. Nickerson, D. Montieth, gardener, and Jos. H. White, J. Wheeler, gardener. In Dr. Weld's display there were some handsome little crotons in 6-inch pots. First premium for six was awarded to the following group: Fasciatus, Mortii, Lady Zetland, Chelsonii, Hanburyanum and Queen Victoria. Among Dr. Weld's best plants were some good palms and fine specimens of Heliconia aurea striata and Dracæna Baptistii.

The group exhibited by Geo. A. Nickerson contained some grand specimen crotons, one of them a magnificently colored Queen Victoria, which took first prize for specimen variegated plant. His ferns were also extra good, especially the adiantums. The following varieties were awarded first prize for five plants: A. concinnum latum, A. trapæziforme, A. scutum, A. amabile and A. tenerum. N. T. Kidder took first prize for specimen ornamental leaved plant with Alocasia Sanderiana, a noble plant. Also first on six dracænas with D. indivisa varieties, D. Lindeni, D. Wellesleyana, D. Robinsoniana, D. Butlerii and D. Massangeana. His caladiums and lycopods were also the finest in the hall.

J. H. White's group contained some well grown and finely bloomed fuchsias. A central object in the exhibition was his specimen plant of Nephrolepis exaltata, a wonderfully fine specimen with fronds five feet in length. On the stage were two grand ferns from N. T. Kidder, Davallia Mooreana which was awarded first prize for specimen fern, and Davallia Fijiensis, which received a silver medal.

Pitcher & Manda staged an interesting group of novelties, among which were Araucaria excelsa compacta (silver medal), Geonoma acaulis (bronze medal), Begonia La Neige (certificate of merit), Cypripedium luridum, hybrid Lawrenceanum X villosum superbum (certificate of merit), Cypripedium Allanianum, hybrid Spicerianum X Curtisii (certificate of merit), Nephrolepis plumosa cristata, Dieffenbachia Memoriæ Corsii and a pure white variety of Anthurium Andreanum.

The display of aquatics attracted more attention than anything else in the exhibition. What society will be the first to get up a special aquatic exhibition? The possibilities for novel effects in such a show are almost unlimited, and it would rank with, if not excel, the chrysanthemum show as a popular attraction. Try it somebody. The two exhibitors in this department were John Simpkins and William Tricker. All the fine nymphæas were shown, such as Zanzibarensis, dentata gigantea, Devoniensis, rubra, chromatella, Laydekeri, Marliacea in several varieties, etc. The blooms shown by Mr. Simpkins were of extraordinary size and beauty. Mr. Tricker's collection included four seedlings, one from gracilis, violet color, one from Carolinensis, one from dentata X rubra, pink, and one from lotus X Sturtevantii, also pink. He received also honorable mention for a tuberosa hybrid.

N. T. Kidder was awarded a certificate of merit for Allamanda Williamsii, a blooming plant in pot, and to George McWilliam was awarded a silver medal for superior culture of Caladium argyrites. E. A. Wood staged a fine collection of foliage begonias. K. Finlayson received

a certificate of merit for a well grown specimen of Pteris tremula Smithiana.

Four private gardeners competed for the prizes for single plant for table decoration dressed at the base with living plants only, and first premium was won by D. Monteith. The plant was Croton irregulare and its base was dressed with Pteris serrulata, adiantums, tradescantia and grasses. Mrs. Geo. L. Brown showed a pot of Vallota purpurea grown in dwelling house, bearing thirty-seven vigorous stalks of flowers.

That much coveted but seldom received award, the gold medal, was awarded to Geo. McWilliam, gardener to Mrs. J. Lasell, for a display of foreign grapes. The following kinds were shown: Black Hamburg, nine pounds and one and one-half ounce, Trebbiano, ten pounds and three ounces, Lady Downes, Madresfield Court, Tyringham Muscat, Alicante, Wilmot Hamburg and Muscat of Alexandria.

Among the visitors to the show were Mr. and Mrs. H. H. Battles of Philadelphia, W. A. Manda, Short Hills, N. J., Jas. Buchanan, Edinburgh, Scotland, A. Ingram, London, England and W. C. Tricker, Dongan Hills, N. Y.

Aquatics.

The ponds of aquatics at Lincoln Park, Chicago, are now about at their best and are worth a long journey to see. During a walk around these ponds with the writer Superintendent Pettigrew related his experience with the various varieties of nymphæas as follows:

With him N. alba candidissima stands at the top as a day-blooming white variety. It is a good grower, flowers are well shaped and of fine color and the plants bloom all summer till frost. It is superior to N. odorata in being a stronger grower and a much freer bloomer. It is better than N. tuberosa for all round work, as the latter is through blooming by the middle of August.

N. Marliacea albida has all the desirable qualities of N. M. chromatella and is a very desirable white nymphæa. Every member of the Marliacea group does well with him.

N. gracilis, a sort introduced from Mexico a few years ago, he thinks very highly of. The plant is a strong grower, a very free bloomer and the straw white flowers stand up a foot above the water. The petals are narrow and long and the flower somewhat resembles that of N. dentata in form.

Of other white flowered day-blooming nymphæas he has odorata, alba and pygmæa to round out the collection, but he says that if he was limited to one day-blooming white it would be N. alba candidissima.

Of the night-blooming white sorts N. dentata is decidedly the best. And certainly it leaves little to be desired. The flowers are very large, about 10 inches across, the petals stand straight out, and under the electric light the flowers resemble huge white stars.

N. lotus, yellowish white, is the only other night bloomer he has that may be classed as white.

Of the day-blooming red or rose colored varieties he places N. Marliacea rosea at the top. It is a strong, free grower and exceedingly floriferous, has handsome foliage and is much better in every way than N. odorata rosea with him.

He thinks very highly of N. Laydekeri rosea, a new sort recently introduced. The flower is small—about midway between those of alba and pygmæa, but are very freely produced, and the color, which is a fine shade of rose the first day, is on the following day suffused with yellow shadings. The one season's trial he has given it has left a very favorable impression.

N. Marliacea carnea has the same general habit as N. M. rosea, but the color is a delicate flesh tint.

N. Caroliniensis is a sort he is trying for the first time and he considers it promising. It is said to be a new species from the Carolinas, but by some it is considered a hybrid.

N. odorata rosea flowers well in May and early June, but as soon as hot weather comes the foliage burns and it ceases to flower. Mr. P. thinks that probably it requires deeper and cooler water than he is able to give it.

N. Zanzibarensis rosea is very useful on account of its strong growth, large blooms freely produced and the fact that like all the Zanzibarensis group it can be quickly and cheaply grown from seed. It is the largest flowered of the rose colored day bloomers.

Of the night blooming red sorts N. Devoniensis still beats them all in freedom of growth and bloom. On a recent evening 28 open blooms were counted on one plant, and with a few such plants in bloom the pond is a gorgeous sight, being well illuminated during summer evenings by a circle of electric lights.

He has tried N. Sturtevantii, but found it very hard to grow and blooms exceedingly scarce. It is a lovely flower when you get it, but they are too few and far between.

N. rubra has handsome reddish brown foliage. The flowers are much like those of Devoniensis, only smaller. It is just as free blooming, too, and he finds little difference between the two except in size of flower.

Of the blue flowered day-blooming sorts N. Zanzibarensis and its variety, azurea, stand at the head. The first is dark purple and the last sky blue in color. The flowers average 10 inches in diameter and he has had specimens that measured full 14 inches across.

N. scutifolia has a small, light blue flower with pointed petals, very freely produced. The plant blooms all summer long.

N. cœrulea resembles scutifolia. The flowers are smaller, but are fragrant.

All the yellows are day-blooming. N. Marliacea chromatella is his favorite. It is the freest flowering yellow. It begins blooming the latter part of April and continues till frost. Outside of color its characteristics are the same as the rest of the Marliacea group.

N. odorata sulphurea has a very handsome flower as large as those of tuberosa, but they are not very numerous.

N. Mexicana resembles flava in growth and size of leaf, but is much more free flowering. A desirable sort.

N. flava has handsome foliage, the leaves small, green, flaked with chocolate. The flowers are a fine shade of yellow, small, but pretty. Unfortunately it is a shy bloomer.

In reference to the hardiness of the various nymphæas Mr. Pettigrew says that while none of them will stand frost at the roots he finds that the following are hardy in two feet of water: The Marliacea group, odorata group, tuberosa, Mexicana. None of the others can be safely left out over winter here.

He finds that the odorata varieties and tuberosa do best in deep, cool water. The Marliacea varieties like water with a temperature of 75° to 80°. The Zanzibarensis varieties, dentata, lotus and Devoniensis will do fairly well in the last named temperature, but if you wish them to do their very best you must give them water with a temperature of 90°.

The Marliacea group and tuberosa have a tendency to bunch the foliage in growing, but this can be readily overcome by dividing the plants to one crown only each spring and planting one in each corner of the box, or about 4 feet apart, instead of one large plant in the center. Where plants are already bunched pick off sufficient leaves to thin the bunch and expose any hidden flowers to view.

A rascally little leaf-miner has been doing some little damage to the nymphæas of late. He is a dirty white in color, about ⅜ of an inch long and works just under the first skin of the upper surface of the leaf, leaving very noticeable ridges that indicate his burrows. Mr. P. has not yet learned of any means of combatting him except to pick off and burn all affected leaves as soon as noted.

Another dirty white rascal is at work on the nelumbiums. He is about an inch long and attacks the leaves in the center, burrowing down the stem, sometimes clear below the water line. Hand picking of the leaves is the only remedy yet known. Mr. P. will send specimens of these pests to Prof. Riley for identification and will report the names and means of combatting them, if any is known, through these columns.

The nelumbiums, in spite of the worm, are looking finely at present, their great pink blooms being specially conspicuous on account of their being carried so high above the foliage. There is a white form in one of the ponds that is useful in a collection, but which is of course not such a striking flower as the type.

Euryale ferox is doing nicely in one of the lower ponds and Mr. P. considers it a very desirable addition to his collection.

Large colonies of Eichhornia crassipes are now in beautiful bloom. No pond of aquatics is complete without a goodly group of these. And we confess a great weakness for the fragile yellow water poppy, Limnocharis Humboldtii, that blooms so freely and constantly. Also the Limnanthemum indicum, with flowers smaller in size, but distinct in form.

At Lincoln Park the aquatics are one of the chief attractions, and as it is visited by countless thousands of people a fair knowledge of these plants is being rapidly disseminated among the people, and that a desire for them is spreading can not be questioned. When it is made plain to the people that an artificial pond can be made at comparatively small expense the demand for these aquatic beauties will be great.

By the way, what an excellent shrub the native Hibiscus moscheutos is for planting on the margin of a pond! A specimen on the margin of one of the upper ponds in Lincoln Park has been a striking feature all summer long, its numerous large, handsome blooms attracting much attention.

Notes on Propagation.

The sowing and treatment of fern spores have been frequently described in the FLORIST, but this class of plants having become so necessary a portion of the stock in many establishments, some slight reference to the methods of procedure may be admitted in these brief notes.

The first essential is to procure spores of good quality, and the surest method is to keep a few old plants for stock, from which the fronds should be gathered



VERANDA BOXES.

from time to time as they mature, and placed in paper bags, or else wrapped in clean paper and laid away in a dry place. After drying and cleaning the spores may be stored away in small vials, and thus kept secure until needed. In order to keep up a stock of ferns it is best to sow several times in the year, and in this manner keeping some store pots of seedlings on hand all the time, in readiness to be potted off whenever some space can be spared for the purpose.

Six inch pans or pots are the best size in which to sow the spores, and only a moderate heat is required for their germination, while close attention is required in the matter of ventilation, to prevent the appearance of fungus among the young seedlings. It is more economical to prick out the young plants into other pans or boxes as soon as they are large enough to handle than to allow them to remain in the original seed pans until they are potted off, as in the latter case many of the seedlings will be spoiled by overcrowding, and a considerable percentage of the crop lost.

For the killing of worms and insects and the prevention of fungus it is a good plan to bake the soil before sowing the fern spores thereon, but this is not absolutely essential to success in the operation, it being more necessary to water and ventilate carefully, and to keep an even temperature of 60° to 65°.

Various small operations of grafting will suggest themselves to the florist doing a general trade, some of which may be attended to now if time permits. Among these is the working of a few plants of Aralia Veitchii in readiness for next season's vases and window boxes, this plant doing admirably for this purpose and adding greatly to the elegance of a vase of foliage plants. Aralia Veitchii does not root rapidly, and it is therefore quicker and more sure to graft it on one of the free-rooting species, A. reticulata and A. Guilfoylei being among the best for the purpose. Either cleft or side grafting may be used for this operation, the last named probably making the neatest job and the strongest union, the plants being kept rather close in a propagating frame until the wounds have calloused, which usually occurs in from two to three weeks.

Another plant that is quite saleable and not difficult to propagate is the mandarin orange, these also being secured by grafting on seedling oranges or lemons, the operation being a very simple one and not requiring a very high temperature to insure success. Of course mandarin oranges grafted this fall will not be saleable stock for next season, as their growth is somewhat slow, but for some of those having space to spare it may prove an experiment worth trying.

Ardisia seed may be sown at any season as soon it is thoroughly ripe, a light, well drained soil being used for the purpose, and the seed pans or boxes being placed in a house in which a steady temperature of about 60° is maintained. The young plants should be potted off into small pots as soon as they are large enough to handle, and shifted on in time to prevent stunting, while giving them space enough to permit stocky growth.

Asparagus plumosus is a particularly useful plant for the decorating florist, and nice young plants of it are generally in demand. These are best secured from seeds, the latter usually germinating readily, though somewhat irregularly, and it is therefore safer to give the seed pans some months of grace in which to redeem the promises of the innocent seedsman, even after the first crop of seedlings have been pricked out or potted off.

W. H. TAPLIN.

Veranda Boxes.

The engraving is from a photograph of a veranda box of which a section (when first filled) was illustrated on page 1235 of the FLORIST for July 6 last. As seen in the picture the box is 18 feet long, and it will be noticed that the plants have made a considerable growth since the box was filled, which was the first week in June. There is a small rubber plant, an unsightly pandanus and a small palm seen in the illustration which do not belong to the box; they were standing on the rail of the veranda.

The dimensions of the box inside measure is nine inches across at top, eight inches at bottom, and eight inches deep. The drooping plants in it are vincas (variegated and green), senecio, ivy geraniums, lobelias, glechoma, petunias (single), lophospermum, abutilon, solanum, nasturtium, money vine, Nierembergia gracilis. The upright plants consisted of

Crozy cannas, Dracena indivisa, a few small palms (latania and Areca lutescens), nephrolepis fern, anthericum, coleus (several varieties), Caladium esculentum, geraniums (several flowering varieties), variegated geraniums, achyranthes and a few fuchsias. WM. SCOTT.

Buffalo, N. Y.



Seasonable Notes.

In answer to "Subscriber," buds that are showing on young roses now should be carefully picked off just as soon as seen, unless blooms are wanted immediately, but where a good crop of extra fine flowers are needed from these the first to 15th or 20th of October, all buds showing from the present time on should be carefully picked off. In fact it is very questionable policy whether it is advisable to leave the buds to mature into blooms before the 15th of October on any young roses, as it undoubtedly weakens the plants very much to allow them to do so. To have a bud matured into a size suitable for market takes a great deal of strength from the plant, and furthermore the bud cannot be marketed without several leaves going with it, which means taking away some of the most vigorous healthy part of the plant; hence I would advise "Subscriber" to cut all his buds off just as soon as he can see them, allowing the plant to grow as vigorously as possible, keeping it healthy, free from mildew, red spider, etc.

We have now gotten to a part of the year where a great deal of care will need to be exercised in keeping down the above troubles; not only mildew, but what is known as "damping off" in the fall of the year. This is caused by having too much moisture in the houses with a moderately low temperature. The best way to avoid it till the time for steady fire comes is to syringe the plants very early in the morning and not over water them at any time, allowing all the surplus moisture to dry out during the day by having abundance of air at any and all times when it is possible to do so; this will insure a nice, dry, even atmosphere in the house. Should any indications of dark brown spots make their appearance a slight amount of fire heat should at once be applied so as to take off the surplus moisture in the morning, and where the temperature—which too often happens—does not fall often below fifty-six I would advise in every case leaving a little air on all night, lighting a fire—though only just enough to warm the pipes so as to expel the heavy dews of the morning. One of the best preventives for mildew is a liberal amount of air on all and every occasion it is possible to get it, having the house five or six degrees above the normal night temperature before putting on the air and gradually increasing the amount till the full amount needed for the day is put on. This method will prevent mildew to a very great extent.

In reference to red spider, liberal syringing under the foliage on every opportunity possible is really the only safe-guard against it; care being exercised at the same time not to get any part of the soil saturated with too much moisture, because in that event it will check the plant and give the red spider an opportunity to get a foot hold; when this once occurs it is very hard to dislodge them afterwards. This is the time of the year when all these things should be watched more carefully than at almost any other season of the year, because the foundation for future troubles is often laid during the fall, though not observed by many unless watched very carefully. J. N. MAY.

Kentias Belmoreana and Forsteriana.

ED. AM. FLORIST: Will you kindly inform me through the columns of your valuable journal which of the two palms, Kentia Belmoreana and Kentia Forsteriana, have the broadest sections in their leaves when the plants attain a moderate size. IGNORAMUS.

The leaves of the kentias are very variable in regard to the breadth of their leaflets, but in general those of K. Forsteriana are much broader than those of K. Belmoreana, the latter variety also having a greater number of leaflets. For instance, the larger leaves on a good plant of K. Forsteriana in a 6-inch pot will average from 14 to 20 leaflets, while those of a corresponding plant of K. Belmoreana will average from 20 to 27 leaflets. The last named variety also has much shorter footstalks and is more compact and graceful in habit. W.



Seasonable Hints.

There may be some difference of opinion whether carnations should be grown on the same ground or not year after year. We think it advisable to make a change if one has ground enough to do it, but we have known the same ground to be used for many years in succession without apparent detriment to the plants. Where so planted year after year it will be found very advantageous to sow the ground with some green crop as the plants are removed. For this purpose rye answers admirably. The grain should be sown as soon as the plants are lifted, section at a time, or if the whole field will be cleared in time one job can be made of it. Simply running the hand harrow over the ground will cover the grain sufficiently, but of course a horse cultivator would be better. Even if sown as late as November the rye will make a good growth for plowing down the following May; but the sooner sown the larger the growth. One to two bushels per acre is about the right quantity. If sown late more is required than if sown early. The rye acts as a retainer of the plant food ingredients of the soil, preventing their waste from the the otherwise bare ground during winter. When plowed under in the spring it is an excellent fertilizer, and makes an excellent bed for the young roots to luxuriate in.

If it is desired to give the ground more rest and improvement the rye should be sown with red clover. The rye is then to be harvested, preferably early as straw or for green feed and clover allowed to remain for another year, when it can be plowed down when wanted. There is no better bed for carnations than a clover sod.

The crimson clover (Trifolium incarnatum) is recommended very highly for a green crop for plowing under. It can be sown as late as the latter part of October. As it grows all winter it will make growth enough to plow under in April; but of course the earlier it can be sown the better. Sow at the rate of fifteen pounds per acre. Simply rolling is all that is necessary to cover the seed. By using some such green crop in the field and plowing it under in the spring we believe carnations can be grown for many years in the same ground, and the soil probably improve under the treatment. Of course we would supplement the green crop with a good dressing of manure applied in the fall, or if well rotted, in the spring. Occasionally apply a dose of fine ground bone or bone black.

Avondale, Pa. W. R. SHELMIRE.

An Unfortunate Blunder.

ED. AM. FLORIST:—Last winter we bought 400 Silver Spray carnation cuttings from a well known florist in the east, and now that some of them are blooming it is seen that they are every one Mrs. Fisher and not Silver Spray. We have written the party and he says that at this late date he can not remedy the mistake. What would be right for him to do in this case? C. B.

[We would like to hear from some of our carnation growers in reply to the above query.—ED.]

Miscellaneous Seasonable Hints.

Chrysanthemums will now need a great deal of your time and attention. There is very little demand and very little money in growing sprays nowadays; fine flowers on long stiff stems are what the public demand. The earlier kinds, such as Mrs. Whilldin, Ivory and many others, are showing their buds, and disbudding must be attended to as soon as they can be handled, that is, rubbed off. I have not seen or heard of any tool that can do that better than your fingers. It is rather a delicate operation, especially if done when the buds are very small, and that's the time to do it. If the crown bud is perfect then rub off the surrounding buds; if it is not a perfect shaped bud pinch it out and choose one of the other buds to make your fine flower. If you do want a few sprays, and some sorts look very fine that way, particularly old Gloriosum, then pinch out the crown bud and let the three side buds develop. They will all be about a uniform size. Of course you will keep all side shoots pinched off the stems. Be sure to keep your stems tied up; it pays well to do this. If allowed to sprawl about the bench the flowers are likely to be injured and you will have bowed and crooked stems, and how can you arrange a vase of mums with these cripples without a lot of work and wire, and then they don't look well.

This is the time of year when the chrysanthemums need the greatest amount of water and naturally will take the greatest amount of stimulant. I have not had experience with all the different manures said to be good for them. I have found a watering once a week with nitrate of soda to give the foliage a fine deep color. So does soot from bituminous coal; about one half peck in thirty gallons of water is a great help to both foliage and flower.

About now cover your beds and benches with one inch of half rotten cow manure. As a manure it is of course a great help,



HOW TO MAKE "RUBBERS" BREAK NATURALLY.

but besides that it is a fine mulch and prevents the beds from drying out every day, and they do dry out pretty fast now where you have only 4 or 5 inches of soil and that is full of roots.

By this time your houses should be glazed tight so that you can fumigate. Don't smoke too strong or you will burn the young tender leaves; three nights in succession and mild will fix our enemy, the black aphis. Last year a few days before our exhibition I had a big crop of the aphis still left on the mums that were going to the show. As the flowers were of course fully developed and some of them on their last legs I was puzzled what to do. Tobacco dust would dirty up the flowers and plants and so would tobacco water. I asked a learned friend how smoke would do and he shook his head; but I fumigated two successive evenings, and heavy at that, the fly was gone, but not a petal was bleached or dropped, in fact not a particle of harm was done.

The same tedious job of disbudding must be done with the plants you have lifted from the bench and potted. One dozen fine flowers on a plant in a 6-inch pot will sell it much quicker than three dozen good, bad and indifferent flowers. Many people are under the impression that because the chrysanthemum will grow in a low temperature and is hardy in most parts of Great Britain that it should have a low temperature at all times. This is a mistake. Look how they thrive planted out in our houses in a tropical heat in midsummer. When opening their flowers give them some fire heat, with a moderate amount of air, and the colored ones should have a slight shading. The coloring of the flowers will be far better if kept in a day temperature of 70° than they will at 45°, and they don't like a cold draught any more than a rose.

It is a good time now to label any of of your seedling Crozy cannas that show qualities good enough for you to propafor next year's sales. I don't mean you should name them and send them out to the public, but mark and describe them for your own use. Don't delay housing all your tender stuff till some afternoon when you can feel frost is coming. Such odds and ends as heliotrope, lantana, lemon verbena and other things that you have summered over in pots for future stock can be got in at any time. That useful plant sweet stevia should be left out as late as possible (but no frost must touch it), because it is most useful at Christmas and must be retarded as much as possible. Bouvardias, if not lifted, should be at once and planted on the benches. This once popular flower is little heard of now, but where a mixed lot of flowers is needed it is useful, but hardly profitable. It wilts badly if many of its fibres are lost and needs for a few days shade and constant syringing. It does not pay to give the bouvardia a side bench in a cool house where you will get but one good crop. It should be planted on a middle bench with head room as you would give roses, and with a night temperature of 60° or more you will get flowers from October till July.

WM. SCOTT.

Buffalo, September 11, '93.

Philadelphia.

The September meeting of the Florists' Club was held in the old library room. The surroundings were not very cheerful looking, but as there was a good attendance the appearance of the room was soon forgotten in the proceedings of the meeting, which were quite interesting.

Secretary Farson stated that he hoped before long to have a temporary roof erected over the front portion of the hall, that had not been damaged by the fire, and get this part of the property into such shape that it could be used. When this is done the club room down stairs will be fitted up a bit, the pool tables brought back and then the members can enjoy themselves as of yore.

Vice-President C. D. Ball occupied the chair in the absence of President Craig, who is again in Chicago, this time, we believe, to superintend the decoration of the state building on Pennsylvania day.

The various committees in connection with the trip west reported and were discharged.

The convention of 1894 was discussed and as the society was to be the guest of the club it was thought best to look ahead and see that good halls suitable for meeting and exhibition purposes be examined and the refusal of the same obtained for the executive committee. A committee was appointed to attend to this matter and requested to report at the next meeting of the club.

Nominations for officers for the ensuing year was next in order and the following gentlemen were nominated: For President, Edwin Lonsdale; Vice-President, Henry C. Shaefer; Treasurer, Thomas Cartledge; Secretary, Henry F. Michell. As there was but one person nominated for each office the election next month will no doubt pass off very smoothly, and it would be well for the candidates to come prepared with little speeches expressing their surprise, etc.

The "Calamity Howlers" are fast passing out of sight; they are either becoming converted or are being relegated to the rear where they belong, and where they are sure to find congenial company. These pessimists as a rule are people who do not get along very well themselves and are always looking about for some reason other than the true one (which they would find at home if they would only look there for it) to explain their position.

Business is improving, slowly but quite up to, if not a little ahead, of last season at this time. There are plenty of flowers to be had, yet the gentlemen who trundle the boxes about town seem quite well satisfied with the results, as they manage to find sale for all their good stock at the following prices: Roses, La France, Brides, Testouts, Mermets Bridesmaid, 3 to 4; Niphetos, Perles, Hostes, 2 to 3; Meteors, Kaiserins, 5; Beauties, 1 to 2 a dozen. Carnations are poor and sell for from 75 cents to $1 a hundred. Asters are coming again; the chrysanthemum aster, a late variety and much larger than the earlier sorts, is now very fine; there are only two colors, however, white



EXEMPLIFIED BY MR. HARRIS AT ST. LOUIS.

and light pink; they sell for $1 a hundred. Valley is 4 to 5. Tuberoses are poor, being nearly all buds, having only a few flowers open, which soon close up; the dry weather is given as the cause. Smilax is plenty and brings 15 cents, asparagus 75 cents.

The insurance companies and the trustees of Horticultural Hall have come to an agreement, and of $40,000 insurance the trustees will get something over $37,000. There was a long delay in the adjustment of this loss, which made Superintendent D. D. L. very weary (so he said); finally by a little "Farsonian" diplomacy the third adjuster was selected and the matter settled up in a short time.

A match game of ten pins between two teams captained by Messrs. Geo. McLean and George Craig was played on the alleys Thursday night last, which resulted in victory for Captain Craig's team by 36 pins. Brown was No. 1 in the match with 524 pins to his credit in the three games, while John Nisbet covered himself with glory by making 242, the highest score ever made in a match in a single game and within 4 pins of the record on the alleys, which is 246, held by Geo. Anderson. K.

New York.

Cut flower trade is still very unsatisfactory, but somewhat improved over the condition of a week ago. Roses are much more abundant. Small roses are very slow sale. American Beauties are coming in in larger quantities than ever before at this season. Asters are getting short and carnations are very scarce. The regular meeting of the Florists' Club Monday evening, 11th inst., at the Grand Central Palace, was the first meeting in the new club room; very pleasant quarters. There was a large number present. Mr. Keller, for the exhibition committee, reported that the revised schedule would be distributed this week. There are very few changes from the preliminary schedule. Prospects are good and there is every reason to look for a successful show.

Captain O'Mara, of the victorious bowling team, being called upon was received with tumultuous applause. He carried a satchel from which he produced the two cups won at St. Louis. After inspection of the trophies by the members a motion by Mr. Weathered that they be filled and circulated was carried with great unanimity. A vote of thanks was passed to the bowling team.

Mr. Seyderhelm, from Germany, the Thorley of Hamburg, being present, was called upon and responded in German, expressing thanks for the welcome and his pleasure at meeting with such a body of American florists.

Mr. Thos. Griffin, of Westbury, had a

fine display of blooms of tuberous begonias on exhibition, which were much admired and declared to be ahead of those shown last year.

Messrs. Julius Roehrs and Gus Bergmann were called upon to tell of their European trip, but pleaded modesty and were excused.

Mr. Weathered then appeared and superintended the filling and subsequent emptying of the cups as though he had been accustomed to it all his life.

Boston.

The florists are complaining of dull times just now. There is not much doing excepting funeral work, and even that seems to have slacked up a little. Roses are in slightly better demand. Carnations are quite scarce. Asters have got past their heavy crop and are selling briskly, white ones bringing as high as a dollar a hundred at sight. Tuberoses on spikes are beginning to come in. They bring about $1 per hundred for the open blooms.

Choice of location of stalls in the new headquarters of the Boston Co-operative Association was sold at auction on September 4. About seventy-five growers were in attendance and bidding was quite brisk. First choice was sold for $30, second $25, then prices ranged from $20 to $15 and $10 down to $5, the lowest sales being at $3.50. Quite a sum of money was realized from the sale.

Peter Ball has been making extensive improvements in his establishment at Malden. He has thrown out a number of his small hot water boilers and has substituted a large steam heating apparatus. His American Beauties never looked so fine at this season of the year as they do now. Mermets and Brides are also in splendid condition and Peter is counting upon having a big winter's trade.

Among the pretty things now in bloom at the Arnold Arboretum is Clethra tomentosa. This is a more beautiful plant than Clethra alnifolia and remains in bloom until November. Rosa Wichuraiana is still blooming quite freely. Among the novelties of this year from seed is an Astilbe Japonica, which is a fall bloomer, and is just now in its prime. The foliage varies from the well known spring blooming species, the leaves being more glossy on the upper surface. The individual flowers are larger than on the common species and there is a faint tinge of pink in the color. Another novelty is a finely variegated Celastrus articulatus.

The value of knowing when to gather the seeds, how to handle them and plant them is seen in the result from rhododendron (azalea) seeds collected by Prof. Sargent in Japan less than a year ago, which were sent here and planted by Mr. Dawson in December last. Many of the young plants are already six and seven inches in height, having been pricked off twice.

Mr. Dawson is recovering slowly from his late illness and is able to go about with the aid of a cane.

Chicago.

Business shows a decided improvement over last week, and there is no doubt the fall trade is beginning favorably. The demand is for the best class of flowers. Some very good roses are to be seen, fine Meteors and La France, and especially good Beauties, which sell well. Carnations have much improved in quality and the best are firm at $1. Their sale is improved by the scarcity of asters, which are now over. Single violets are to be seen, but not in sufficient quantity to be quoted. Speciosum lilies are still coming in; some extra good rubrum were noted, which sell for $5. Auratum is scarce, but fine flowers are sold for $8 to $10. Gladiolus is gone. There are no dahlias coming in; a good rain would bring them in in quantity, but they are so completely dried up that they are not opening their blooms. Cosmos has not yet shown itself and it too is suffering from drouth. There will be few outdoor autumn flowers according to present appearances, but prospects for trade appear good.

Prices continue the same as last week, but they are firmer and generally keep to the higher figures.

Among recent visitors were Chas. Wachendorf, Atlanta, Ga.; C. H. Joosten, New York; Otto Ramsberger, Newark, N. J.; S. J. Reuter, Westerly, R. I.; F. M. Pennock, Charlestown, W. Va.; R. A. Betz, Cincinnati; B. Haar, Omaha, Neb.; A. Wadley, New York City; L. H. Eckhardt, Nashville, Tenn.; Miss C. B. Flick, Fort Wayne, Ind.

Baltimore.

The members of the club who attended the excursion to Fairy Grove had a good time, whether their taste led them to the dancing floor, the bowling alley, the woods or the water; they had a good time all the same. Paddling about the inlets and creeks with a fair damsel seated in the stern of the boat, drifting along the shallow water, picking out crabs now and then with a dip net or racing to the station landing to see who had come on the last train, the little fleet of boats was kept busy. Then the family parties that collected here and there in the woods marked a new thing and one that ought to be kept up. Why should we not have every year a social reunion like this and bring the wife and children along? What a charming thing it was to see, when the enthusiastic bowlers had done themselves up, the ladies take the floor, and what peals of laughter and applause when one with steady hand sent the heavy globe spinning along the floor and made a strike. Altogether it was a well devised scheme and one that reflects great credit on the chief committee man, Mr. F. Baner, to whose perseverence and hard work the members are indebted for a most delightful day.

Quite a flurry in retail circles was caused by the death of a leading musician and composer, Mr. Adam Itzel, Jr. Among the multitude of floral tributes were "lyres, harps, a violin, piano, baton of flowers and numerous other emblems beautifully expressive of the art of which the Baltimore musician had been so worthy a disciple," to quote a leading daily. The pieces were doubtless beautifully expressive of hard cash to the men who furnished them, but as for art, perhaps the less said the better, though they were as good in their way as possible.

Business as a rule is very quiet, the supply of really good flowers scarcely up to demand, but medium and common things perfect drugs. Prices unchanged.

MACK.

St. Louis.

Trade still continues fair for this time of the year, although things are very quiet. A comparison made by several firms in their books at present and during this time last year shows a marked gain for this season. This, coupled with the increasing confidence in the financial situation and the splendid record St. Louis has made during the late money disturbances, gives us an excellent outlook for the coming winter.

The trade here are much exercised over the failure of the "Elleard Floral Co.," which has during the past week assigned to Stacius Kehrman, Sr., under a mortgage held by him. The assets as figured out by the appraisers amount to about $1,400; this includes everything. The liabilities as yet are unknown, although a meeting of the creditors was to have been held during the week. The general opinion, however, is that it is a bad failure. All three of the wholesale men have been caught for more or less, the total of their claims amounting to about $600. What action they will take has not as yet been decided upon; it is supposed, however, they will act in unison.

The C. Young & Sons Co. are mailing their retail fall catalogue. The large additional steam boiler they are putting in has been placed in position, but work is at a standstill on it, owing to a strike among the boilermakers which has been in progress for a month or more. There is a prospect of their coming in during the week.

In my notes of August 24 a slight error appeared in regard to damages awarded Mr. Jablonski for loss suffered by inundation. The estate offered to allow $600 for damages, but as an offer of $600 in cash had been refused at the time of the occurrence, it was not accepted. The estate is involved and in accepting their offer of $600 chances of collection would be assumed the same as any other creditors, with the probability that only from 25% to 50% would be paid. So an appeal was taken to the Circuit Court asking that the full amount of damages be awarded as per estimate at the time, amounting to about $2,000. R. F. T.

Buffalo.

There was a large delegation of Buffalo florists visiting the Elmira state fair last week. The display of plants and flowers (a large, spacious building devoted entirely to them) would do credit to a much larger city. The premiums offered were most liberal, really worth the trouble and expense of an exhibit. The premium list attracted several exhibitors from out of town, among them Pitcher & Manda, J. H. Rebstock and Wm. Scott of Buffalo, who came in for a good share of the handsome premiums. Pitcher & Manda's collection of stove and greenhouse plants was the center of attraction and their collection of cut flowers was also very fine. An amusing feature of the exhibit was that Rebstock took first over Pitcher & Manda in 12 variegated plants, since when Mr. R. will hardly recognize you as you pass by. Grove P. Rawson, Mrs. Wells and several other local florists made large exhibits in nearly every department. Mr. Cowell, who had charge of the horticultural department to the entire satisfaction of the management, had to leave home to begin his professional duties and deputized Mr. Mepsted to take charge. Before leaving home on Tuesday Mr. Rawson invited the visiting florists with the judge (Mr. Fry of Rochester) to step into his parlor at 7 in the evening, which we did to the number of a dozen or so, and a delightful two hours was spent. "Joe," who is a judge of the best brands, said it was "Mumm's" sure.

The long looked for rain came, but not as "the gentle rain upon the earth beneath." It came as a summer blizzard and leveled trees and corn, and even car-

nations have a decided leaning to the southwest. I hear of no great loss among the florists hereabout either in buildings or stock, and if there was a little we could stand it, for never was rain more needed here. And to make us entirely satisfied another four inches fell on Thursday last. Business, as was expected, is picking up and no doubt will improve steadily now. The tourists returning are sincerely welcome; not only will they buy flowers, but the good ones will settle their last spring's accounts, which they didn't have time to bother about in their hurried departure for Europe or the seashore.

The carnations, which seem to have suffered in many parts of the country from the drouth and grasshoppers, are looking well in western New York. I noticed a field of them at Mr. Rawson's which were very fine. W. J. Palmer, at Lancaster, has a grand lot. At the carnation village of Corfu Webb Bros. have 20,000 fine plants. W. Scott has 5,000 or 6,000 as fine as he wishes them to be, and Messrs. Giddings, Edwards, Tyrrell and Farnham all report their plants good except that the grasshoppers have nibbled the buds badly. This is a good test and a proof that the carnation will stand in the open air an extremely protracted dry spell. Webb Bros. found the grasshoppers difficult to deal with, but found the best thing was to hire a young lady attired in crinoline and a dress of soft texture to walk up and down the rows. The grasshoppers got scared and made for the nearest pasture, and it takes them several hours to hop back again, and it's so much more picturesque than Paris green. Mr. Valentine Hammon, late of the beautiful Niagara, has turned his back on Buffalo and with his young bride has departed for New York. We are all very sorry to lose him and wish him the best of good fortune. W. S.

Floral Designs.

It is often noted that every florist has his own peculiar style in the arrangement of flowers and in a collection of designs one familiar with the work of the various florists in the vicinity can readily indicate the name of the arranger of each piece. We are too apt to get into ruts and work with mechanical precision, building a design much as a carpenter builds a house, and when our favorite materials are lacking we are sadly handicapped. We need to rub up our ideas and get away from the conventional forms that have fastened themselves upon us.

This fact was recently impressed on my mind by an excellent deviation from established rule brought about by stress of circumstances.

An order was left in the evening for a pillow to be delivered early the next morning at an hour that debarred me from any chance to obtain fresh material, and my stock was very low. I had only a few roses and 100 short stemmed carnations, and a quantity of fancy ferns. It seemed impossible to turn out a creditable piece of work with this material, but with many misgivings I went ahead. The pillow being mossed I stemmed enough fancy ferns for an edging, these were about nine inches long and somewhat spread. The small pieces of ferns left were then placed on the surface of the pillow to hide the moss. In the center I massed my white carnations, leaving a band about five inches wide clear around uncovered except by the ferns. On the white carnations I placed the required lettering "Our Father," placing the last word in the center clear across and the word "our" diagonally over the "F." in "father." On each of the four corners of the pillow I placed a loose spray of Niphetos roses, allowing a few small buds to extend beyond the rest and the effect was excellent. In the space below the inscription a similar loose, naturally arranged spray of Mermets was placed. A few sprays of adiantum and asparagus clipped from plants used to decorated the window, softened the whole. I had left two long stemmed Mermets and these I laid, with full stems extended across the bed of carnations bearing the inscription with a few sprays of adiantum and other foliage, which softened the harsh outlines of the lettering without destroying its legibility, and the arrangement was complete. I placed it in the window where it attracted much favorable comment. The customer was greatly pleased with it, and willingly paid the contract price, $8, though the cost of all the material was only $3.25, leaving a profit of $4.75, which is not a bad profit on an $8 design.

J. F. B.

We request subscribers to make remittance by draft or money order when renewing subscriptions, and to keep a record of the numbers and dates of same. This is to guard against losses in the mails.

Do you want an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our trade directory and reference book.

You can never invest $2 to better advantage than in a copy of our trade directory and reference book.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By a young man, single; well posted in the nursery business; 5 years experience. P C, P. O. box 85, Little Silver, N. J.

SITUATION WANTED—By first-class florist and gardener; thoroughly experienced in both branches; single. Best references. State wages. H. SWABY, Clifton, Green Co., Ohio.

SITUATION WANTED—By a practical young florist as general plantsman in the greenhouses; 8 years' experience. Address G. care E. H. Hunt, 79 Lake St., Chicago.

SITUATION WANTED—By a first-class florist; 14 years' experience; commercial or private; married; 28 years of age. Address R. LANGE, 543 Evanston Ave., Chicago.

SITUATION WANTED—By a young Englishman, age 22, single; 7 years experience; good reference; $25 to start. Address F. W. SUMMER, 3631 Wallace St., Chicago.

SITUATION WANTED—By young lady; 5 years' experience as designer and decorator. Good references. Address, stating wages given. MISS JENNIE E. CAMPBELL, 215 3½ St. S., St. Cloud, Minn.

SITUATION WANTED—By a married man, German, as foreman or assistant on commercial place; thoroughly understands the cultivation of roses, carnations, violets etc. Best of references. Address W. FISCHER, 60 Sedgwick St., Bridgeport, Conn.

SITUATION WANTED—By a competent all round man, where he can learn the English language; 11 years' experience in best places in Sweden, Denmark and Germany. Best of references furnished. Age 25. Address L. ANDERSON, box 686, Batavia, Ill.

SITUATION WANTED—As manager or foreman; thoroughly versed in roses, carnations, violets, decorative and bedding plants; the forcing of all kinds of bulbs; over 22 years' experience. References given if required. FLORIST, 41 Steinway Ave., Cleveland, O.

SITUATION WANTED—By a first-class florist and gardener as foreman or head gardener, commercial place preferred; 30 years' experience in all branches; Austrian, married, no family. Address T. A. KASCHKA, 315 8th St., N. W., Washington, D. C.

SITUATION WANTED—By first-class German binder and decorator; also experienced in cut flowers market and winter-flowering plants, strong, energetic, single and reliable man; has capital, and later on would like to go into company. Address, stating wages. OTTO HUECKSTEDT, 75 Avrille Ave., Rochester, N. Y.

SITUATION WANTED—By practical florist; thorough knowledge in all branches; German, married; 18 years' experience; 6 years with present employer; best of reference of same. Private or commercial. State wages. Address S S, care American Florist, Chicago.

SITUATION WANTED—By a first-class man as foreman. Specialist in rose and cut flower growing. Well experienced in propagating and growing of general plants; some knowledge in decorating and designing. 25 years old. Open for engagement at any time desired. Private or commercial. Address M. STAUCH, care O. P. Bassett, Hinsdale, Ill.

WANTED TO BUY OR RENT—A few greenhouses near or in St. Louis. Address O K, care American Florist, Chicago.

WANTED—A first-class foreman; married; no children preferred. ANCHORAGE ROSE CO., Anchorage, Ky.

WANTED—Small hot water boiler and 250 feet 4-in. pipe. Must be cheap. Address A. care Newell & Kidd, 2320 St. Joseph Ave., St. Joseph, Mo.

WANTED—Young man as assistant in greenhouse and outside. State experience and wages per month with board. Address GEO. S. BELDING, Middletown, N. Y.

WANTED—A foreman in old established city floral establishment; must understand decorating and fern jardinieres; used to city trade. Address CHAS. A. DARDS, 341 Madison Ave., New York City.

WANTED—In a commercial establishment, a young single man, having taste and experience in arranging plants for church and house decorations for weddings, etc. Must be a willing worker in greenhouses. A man addicted to drink or profanity would not be permitted to remain a week. Give reference and state wages expected. A permanent place for a good man. Address PLANTSMAN, care Am. Florist.

TO EXCHANGE—Carnations: 250 Hinze's White for Garfield and Silver Spray. GEO. SOUSTER, Elgin, Ill.

FOR SALE OR LET—A valuable florist establishment near depot. Appiy to JACOB MENDEL, Nyack, N. Y.

TO LET AT ONCE—My florist business at 20 per cent. for me. Location best, cars stop and connect to all parts every half hour. Come and see. Sickness. LOUIS R. FOX, Gloversville, N. Y.

FOR SALE OR RENT—Two greenhouses, hotbeds, ½ acre of land, southeastern exposure, 4-roomed dwelling, stable, etc.; centrally located, East End. Address J. B. FERGUSON, E. E. Pittsburg, Pa.

FOR SALE CHEAP—Ten acres of land with two greenhouses 20x100 feet each, heated with hot water; in good location. Reason for selling, I am not a florist. Address CHAS. E. OLMSTED, Danville, Ill.

FOR SALE—At a bargain, three (3) greenhouses, pit, etc., in good order, well stocked, very large lot, 3½ year lease, in heart of city at San Antonio, Tex., over 40,000 inhabitants, health resort, military post, good trade, competition light, field very large, opportunity of a life time, investigate at once, best reason for selling. Address M. C. LONG, 216 Oakland St., San Antonio, Tex.

FOR SALE—Greenhouses and business. My only chance to live is to get into a different climate quickly, wherefore I will sacrifice for cash my business here, which has been profitable. It includes 5 greenhouses (covering about 8,000 square feet), all heated by steam, a good stock in ground and in houses, and an established cut flower store in the city. Price awfully low for cash. Address W B, Box 655, Harrisburg, Pa.

WANTED.

A practical seed grower; one who has had experience in flower seeds preferred. Also plant packer for nursery mail department. Address PACIFIC COAST, P. O. box 2683, San Francisco, Cal.

FOR SALE OR RENT.

Rose and cut flower growing plant containing about 35,000 square feet of glass; houses heated by steam and hot water; all in good condition; well stocked with roses, ferns, palms, etc. Only 18 minutes ride from center of city. If you mean business, address FLORIST, care Chas. E. Prather, Louisville, Ky.



TRY DREER'S GARDEN SEEDS,

Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.

HENRY A. DREER, Philadelphia, Pa.

Special Offer to American Trade.

LOUIS DE SMET,

NURSERYMEN, GHENT, BELGIUM,

OFFER AS SPECIALTIES:

Palms, Azalea indica and mollis, Araucaria excelsa (thousands), Bay Trees, Tuberons Begonias, Gloxinias.

☞ New Trade List on application. . . .

DES MOINES, IA.—At the Iowa State Fair the space in horticultural hall allotted to floriculture was well filled by the city florists. Of the first premiums fourteen were awarded to W. L. Morris, six to Mrs. J. T. D. Fulmer, four to Kemble Floral Co., of Oskaloosa, three to R. A. Rollinson and some scattering single ones to others.

MOSCOW, IDAHO.—O. P. Barkwill has purchased the business formerly conducted by W. D. Gano.

ZIRNGIEBEL'S Giant Market and Giant Fancy PANSIES,

are without question the most popular strains in cultivation up to date.

New Seed ready now, in trade packages of either strain, at one dollar each.

PLANTS FOR SALE.

Denys Zirngiebel,
NEEDHAM, MASS.

PANSIES.

Best mixture of German bedding varieties, now ready, per 1000 $5.00; per 100 60c.
We have also separate colors, ready in two weeks.

BRAUER & RICHTER,
McCONNELSVILLE, OHIO.

PANSIES WORTH RAISING.

The kind that Sell at Sight.

Large plants, some in bud, $5.00 per 1000; $1.00 per 100. Seed, $1.00 per package of about 2000 grains.

GRACE WILDER CARNATIONS, field-grown extra large, choice plants, $8.00 per 100.

Cash with order.

CHRISTIAN SOLTAU,
199 Grant Ave., JERSEY CITY N. J.

PANSIES.

Nice plants of my selected strain, the best for florists. 65 cts. per 100; $5.00 per 1000. Fresh seed 50 cts. per pkt. (1000 seeds.)

ADOLF STAHL,
JOHNSTOWN, PA.

SUPERB PANSIES.

My "Rainbow Mixture"

is a combination of the very best strains in existence, and is sure to give satisfaction. Young plants 65 cents per 100 by mail; $5.00 per 1000 by express. Cash with order or C. O. D.

GEORGE CREIGHTON, Poughkeepsie, N. Y.

SPECIAL SEPTEMBER OFFER.

Extra Pansy Seed.

A grand collection of giant flowering varieties, carefully selected; receive high praise from florists; no finer strain offered anywhere. A liberal offer. Trade pkt. 500 seeds, 25 cts.; 3 pkts, 50 cts.; 7 pkts, $1.00.

JOHN F. RUPP, Shiremanstown, Pa.

COLUMBIAN PANSIES.

A limited supply of plants during the season, at 70c. per 100; $5.00 per 1000. It will pay you to send your address to

W. J. ENGLE,
Box 211, Dayton, Ohio.

PANSY PLANTS.

From seed of my own importation from pansy specialist of Germany, by far the largest size, and finest colored strain ever offered to florists before. Order at once: stock limited. 75 cts. per 100; $5.00 per 1000.

Wm. C. Eger, 825 Union St., Schenectady, N. Y.

JULES DE COCK'S NURSERIES

GHENT, BELGIUM.

OFFER TO THE TRADE OF GOOD PLANTS.

10,000 Araucaria Excelsa; 100,000 Begonia Bulbs.
30,000 Azalea Indica; 20,000 Azalea Mollis.
100,000 Palms, different sorts, all sizes.
10,000 Laurel Bays, Standards and Pyramids.

PANSIES.

THE BEST ARE THE CHEAPEST.

My customers say that mine are the best they can buy in all that goes to make good Pansies, **size, color, form and substance.** Try them, and you will say so yourself. They are better this season than ever, and if you don't want more, get a hundred for comparison with others you grow.

The **Plants** are good as well as the strain, and for the asking I will mail you an honest sample. **Price free by mail 75 cts. per 100, or $3.00 per 500; by express $5.00 per 1000.** 50,000 ready to ship every week from now until Dec. 1st.

L. B. 496. **ALBERT M. HERR, LANCASTER, PA.**

FIELD GROWN CARNATIONS.

Fine healthy plants for Winter Bloom.

W. R. SHELMIRE,
CHESTER CO., AVONDALE, PA.

Send for Circular.

When writing mention the AMERICAN FLORIST.

CARNATIONS.

Healthy plants for winter blooming.
TUBEROSE BULBS, home-grown, by the thousand.
CUT FLOWERS of Carnations in season.

Chas. T. Starr.
AVONDALE, Chester Co., PA.

GROW THE BEST CARNATIONS

the market affords. We have them.

Send for price list of field-grown carnations.

Geo. Hancock,
GRAND HAVEN, MICH.

Carnation Plants.

Several thousand plants of bedding varieties for sale.

Prices on application to

J. T. ANTHONY,
2205 Michigan Ave., CHICAGO, ILL.

FIELD GROWN CARNATIONS

New Varieties.	Good, healthy plants.
Mme. Diaz Albertini	$25.00 per 100
Mrs. E. Reynolds	20.00 "
Wm. Scott	20.00 "
Richmond	20.00 "
Spartan	15.00 "
Dr. Stuart	15.00 "
Western Pride	15.00 "
Wabash	15.00 "
Blanche	15.00 "

FRED. DORNER & SON, La Fayette, Ind.

8,000 FIELD-GROWN CARNATIONS

$6.00 per 100; $50.00 per 1000.

PROBST BROS. FLORAL CO.,
1017 Broadway, KANSAS CITY, MO.

CARNATIONS. CARNATIONS.

ROOTED CUTTINGS.

A FEW THOUSAND ONLY.	Per 100	Per 1000
TIDAL WAVE	$1.50	$12.50
DAYBREAK	2.00	17.50

GEO. SMITH, Manchester, Vt.

FIELD-GROWN CARNATIONS.

Large, healthy plants of all leading varieties. A discount on large orders. Write for prices.

J. A. TRACHT & SON, Galion, Ohio.

CARNATIONS AND VIOLETS.

Strong, healthy plants The leading varieties of Carnations and Marie Louise Violets.

LOUIS A. GUILLAUME, East Onondaga, N. Y.

Carnations and Violets.

FIELD-GROWN.

Prices on application. . . .

NATHAN SMITH & SON,
167 W. Maumee St., Adrian, Mich.

CARNATIONS

ALL

THE LEADING VARIETIES.

R. T. LOMBARD,
Wayland, Mass.

CARNATIONS,

Grace Wilder, Tidal Wave and Silver Spray, **BOUVARDIAS**, Pres. Cleveland, Pres. Garfield and Bridal Bouquet, single white. Also Kentias, Arecas, Latania Borbonica, etc.

WM. A. BOCK, N. Cambridge, Mass.

10,000 SURPLUS CARNATIONS

Nice, healthy plants from field.
Send list of your wants, as they must be sold.

BENJAMIN CONNELL,
West Grove, Pa.

FIELD-GROWN CARNATIONS.

I offer the following varieties in quantity; all strong, healthy plants, ready Sept. 10th:

Mrs. Fisher, L. L. Lamborn, Puritan, Lizzie McGowan, White Dove, Angelus, Daybreak, Mrs. Ferd. Mangold, Thos. Cartledge, Emily Pierson, Wm. F. Dreer, Golden Gate, Peachblow Coronet, Cæsar. A number of other kinds in small lots. Correspondence solicited.

C. J. PENNOCK, The Pines, Kennett Square, Pa.

FIELD-GROWN CARNATIONS.

Strong, healthy plants: Mrs. Fisher, Garfield, Portia, Hinze's White, White Dove, L. L. Lamborn, Buttercup, Lizzie McGowan, and newer sorts.

VIOLETS—Marie Louise and Swanley White.
ROSES—Best forcing sorts, from 2½ and 3-in. pots.
SMILAX—Strong plants, from 2-in. pots.
Heinl's Monthly Pelargoniums. Low cash prices on above stock on application. I will take in exchange Double White Primroses, Ferns, Rex Begonias, Dracænas, and young Palms.

JOSEPH HEINL, Jacksonville, Ill.

CARNATION PLANTS

25,000 including all the best varieties. Strong, healthy, field-grown plants.

ADDRESS **N. S. GRIFFITH,**
Jackson Co. INDEPENDENCE, MO.

Please mention the American Florist every time you write any of the advertisers on this page.

BEAUTY

and **BRIDESMAID**, fine 3-inch now ready for planting, $8.00 per 100. Also **Perle, Meteor, Cusin, Wootton, Soupert, Hoste, Sunset, Mermet** and **Bride**, $6 per 100. A splendid stock for late planters.

M. A. HUNT, Terre Haute, Ind.

ROSES

BRIDES, MERMETS, BON SILENE, NIPHETOS, CUSINS, WATTEVILLES AND JACQUEMINOTS.

25,000 fine plants in 3-inch pots, at a bargain. Will quote you prices on application. IF WANTED SPEAK QUICK.

ROSES

A. N. PIERSON, CROMWELL, CONN.

Carnations, Violets, Pansies.

40,000 CARNATIONS.

Extra strong, healthy, field-grown plants. No rust.

	Per 100
6,000 Grace Wilder	$ 6 00
3,000 Portia, 500 Fred Creighton, 600 Mayflower, 5,000 Orange Blossom, 4,000 Tidal Wave, 15,000 Hinze's White, 400 Anna Webb, 300 Silver Spray, 300 Garfield, 300 White Wings	5 00

Other varieties in small quantities.

2,000 Marie Louise Violets, fine healthy stock, field-grown 7 00

The Jennings Strain of large-flowering and fancy Pansies, 65c. per 100 by mail; $5 per 1000 by express; 5000 $20. White and Yellow, separate colors, same price.

PANSY SEED. Finest mixed—pure white, yellow dark eye, each per trade pkt. 50c. and $1. Mixed per oz. $6. White or yellow $5 per oz.

Green's Farms is my nearest station on the line of New York, New Haven & Hartford R. R., 50 miles from New York, six minutes walk from depot.

Address *E. B. JENNINGS,*
Lock Box 254. SOUTHPORT, CONN.

40,000 CARNATIONS

Field-Grown. Free from Rust.

	Per 100
7000 Grace Wilder	$ 6.00
5000 Portia	5.00
3000 Tidal Wave	5.00
5000 Orange Blossom	5 00
2000 Fred. Creighton	5.00
2000 Silver Spray	5.00
500 Lamborn	5.00
500 Anna Webb	5.00
500 Garfield	5.00
500 White Wings	5.00
500 Snow Bird	5.00
500 Lizzie McGowan	5.00
200 Mayflower	5.00
15,000 Hinze's White	5.00
MARIE LOUISE VIOLETS.	
3000 extra fine plants, at	7.00
Also extra fine strain of Pansies. Large flowers and fancy colors. Large flowering plants	1.00
per 1000, $8.00.	
Cold frame size, by mail per 100 $5.00;	.65

CASH WITH ORDER.

Address GEO. B. WHITEHEAD,
Lock Box 116. Greens Farms, Conn.

CARNATIONS

Strong and healthy, for Immediate Delivery.

	Per 100
MRS. FISHER	$ 6.00
McGOWAN and PORTIA	8.00
AURORA	12.00
THOS. CARTLEDGE & BUTTERCUP	15.00

10 per cent. off for 500 plants; 15 per cent. off for 1000 plants.

F. M. PENNOCK, Charlestown, Jefferson Co., W. Va.

FIELD-GROWN

CARNATIONS.

30,000 FIRST-CLASS PLANTS.

Nellie Lewis, Puritan, Portia, McGowan, American Flag, Daybreak, Annie Wiegaud, J. J. Harrison, Hinze's White, Tidal Wave and other varieties.

Send us a list of what you want, and get our *Special low* prices.

VICK & HILL, Rochester, N. Y.

10,000 FIRST QUALITY FORCING ROSES

READY FOR IMMEDIATE PLANTING.

Fully equal to those sold last year, and perfectly healthy in every respect.

LA FRANCE, 3-inch pots, $9.00 per hundred; 4-inch pots, $12.00 per hundred.

MERMET, BON SILENE, MME. HOSTE,
PERLE DES JARDINS, SAFRANO, MME. CUSIN,

3-inch pots, $7.00 per 100; 4-inch pots, $10.00 per 100.

SMILAX. Strong plants, 2½-inch pots, $2.50 per hundred; $20.00 per thousand.

J. L. DILLON, Bloomsburg, Pa.

Forcing Roses.

FINE STOCK, IN 3-INCH POTS.

Perle, Mermet, Bride, Meteor, Bennett. Albany and La France. Price, $5.00 per hundred.

GEO. W. MILLER, Hinsdale, Ill.

ROSES.

Fine healthy stock.

	Per 100	P. 1000
Perles, Mermets, The Bride, Sunset, Niphetos, Bon Silene, Souv. d'un Ami, Duchess of Albany, Mme. Cusin, Mme. de Watteville, from 3-in. pots	$8.00	$75.00

CARNATIONS.

	Fine, healthy stock.
PURITAN, best white, early and productive. **Aurora, Grace Darling, Lizzie McGowan, Golden Triumph, Constance, W. F. Dreer, Tidal Wave, J. J. Freeman, Silver Spray, Grace Wilder, Portia, The Century, John McCullough, Orange Blossom.**	
Price, 1st size, $8.00 per 100; $70 00 per 1000. 2nd size, $6.00 per 100; $50.00 per 1000.	
Daybreak, Pearl, Crimson Coronet. Price, $10.00 per 100.	
NOTE.—Our carnations have been kept sprayed and are in fine, healthy condition.	
SMILAX, from 2¼-inch pots	2.50 20.00

Lots of other Fine Stock.

Send for new list.

WOOD BROTHERS,
Fishkill, N. Y.

SPECIAL • BARGAINS

FOR THE TRADE.

	Per 100
1000 Hydrangea Otaksa, extra fine, bushy plants, from 4-inch pots, with 4 to 6 strong shoots, splendid stock for spring trade	$10.00
Second quality (nearly as good)	8.00
600 Bride Roses, fine plants, from 3-inch pots	6.00
1000 Perles, extra large, bushy plants, from 3-inch pots, ready for fours	8.00
1000 Mme. Pierre Guillot, from 3-inch pots, first-class	5.00
3000 Meteors, from 2-inch pots, strong plants	4.00
500 Queens, from 2-inch pots. This is one of our best paying roses either for pots or forcing	4.00

All the above is strictly first-class stock, and sure to give perfect satisfaction.

C. YOUNG & SONS' CO.,
1406 Olive St., ST. LOUIS, MO.

ROSES.

LAST CALL. FINE STOCK.

		Per 100	Per 1000
2,500 PERLE	3-inch,	$5 00	$40 00
1,500 PERLE	2½-in.	3 00	25 00
500 BRIDE	3-inch,	5 00	40 00
1,000 BRIDE	2½-in.	3 00	25 00
1,200 MERMET	2½-in.	3 00	25 00
130 WABAN	2½-in.	3 00	
200 HOSTE	2-inch,	3 00	

BROWN & CANFIELD,
SPRINGFIELD, ILL.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Roses, Etc.

We offer in prime quality **ROSES** from 2-in. pots at $4.00 per 100; 3-in. pots at $6.00 per 100; of the following sorts, and many others, **La France, White La France, Catherine Mermet, The Bride, Perle des Jardins, Niphetos, Mme. Pierre Guillot** and others, strong 2½-in. $6.00 per 100.

BOUVARDIAS.
Single and Double, all colors, 2 inch pots, $4 00 per 100; 4-inch pots $8.00 per 100.

CHRYSANTHEMUMS.
From $4.00 to $25.00 per 100; in all sizes, choicest sorts only.

VIOLETS.
Single and Double, 2-inch pots, $4.00 per 100. Prepared for winter forcing.

FERNS.
Pteris argyrea, 3-inch, strong, $6.00 per 100.

PANSIES.
Extra fine German and French strain, from 2-inch pots, $2.00 per 100. From seed boxes, $1.00 per 100.

DUTCH BULBS and LILIES at New York prices.	Per 100
Petunias, double fringed	$ 4 00
Heliotrope Mme. Ducharte	4.00
Ampelopsis Veitchii	4.00
Jasmines, 6 sorts	4.00
Hibiscus, single and double	4.00
Geraniums, scented and variegated	4 00
Fuchsias, stock plants	5.00
Palms in variety, 3-inch pots	10.00
Begonias, stock plants	6.00

We have expert growers for each specialty, and guarantee satisfaction. ADDRESS

NANZ & NEUNER,
Louisville, Ky.

The Grand New Forcing Rose,

"American Belle."

Prices and full particulars on application.

John Burton, Chestnut Hill, Philadelphia

Hybrid Perpetual Roses,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

Mention the American Florist when writing to advertisers on this page.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Catalogues Received.

Aug. Rolker & Sons, New York, trade list bulbs; Huntington Seed Co., Indianapolis, florist's supplies and wire designs; F. R. Pierson Co., Tarrytown on Hudson, N. Y., seeds and plants; A. Blanc, Philadelphia, electrotypes of engravings of vegetables; John G. Treseder, Sydney, Australia, palm seeds, etc.; Russell Bros., Highlands, N. C., native American plants; Z. K. Jewett & Co., Sparta, Wis., nursery stock; Vaughan's Seed Store, Chicago, bulbs, plants and seeds; G. R. Gause & Co., Richmond, Ind., bulbs, plants and seeds; Ellwanger & Barry, Rochester, N. Y., strawberries, Dutch bulbs, etc.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers

E. G. HILL & CO.,

Wholesale Florists

RICHMOND, INDIANA.

SMILAX.

A large stock of strong well grown plants from 2¼-inch pots, at $1.50 per 100; $12.00 per 1000.

PANSY PLANTS for fall. Choicest strains.

CYCLAMENS, both 1 and 2 year bulbs. Prices on application.

CLEMATIS, large flowering, for fall delivery. A very large stock and assortment. Write for prices I can suit you both on plants and prices.

F. A. BALLER, Bloomington, Ill.

P. SEBIRE & SONS,

Nurserymen, USSY, Calvados, FRANCE.

A general assortment of Fruit Tree Stocks, such as Apple, Pear, Myrobolan Plum, Mahaleb and Mazzard Cherry, Angers Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, etc. The largest stock in the country. Prices very low. Packing secured. Catalogue free. Send for quotations before placing your order elsewhere. Agents for U. S. America and Canada.

C. C. ABEL & CO., P. O Box 920, New York.

Roses and Smilax

2½ and 3-inch pots, strong plants.

WRITE FOR PRICES.

Kemble Floral Co.,

OSKALOOSA, IOWA.

Surplus Stock.

1000 La France, fine large plants, ready for the bench $6.00 per 100
100 Perles 5.00 "
1000 Smilax, large bushy plants . . . 2.00 "
Cash with order.

JACOB MENDEL, Nyack, N. Y.

— SMILAX —

Extra strong plants from 2½-inch pots, only $1.25 per 100; $10.00 per 1000.

Address Box 873. H. MADSEN, SPRINGFIELD, MASS.

J. B. DEAMUD & CO.

Wholesale Florists, 45 Lake St. (FLORIST EXCHANGE), CHICAGO, ILL.

We have over 100,000 feet of glass devoted exclusively to Roses. We have ten houses 21x170, containing nearly 20,000 plants of American Beauty. The balance planted to Albany, La France, Meteor, Bridesmaid, Bride, Perle, Mermet, Hoste, Victoria and Wootton. All shipments made from stock CUT FROM OUR OWN HOUSES, which assures our customers **Strictly Fresh Flowers.**

We ask for a trial order and we will do our best to make you our friends.

FIRST-CLASS GOODS, STRICTLY FRESH, and at REASONABLE PRICES GUARANTEED.

THEY SAY That **ASPARAGUS PLUMOSUS NANUS**

at 50 cents a string, 8 to 12 feet in length, is the cheapest and best material for decorating, as it will stand longer and look better than any other green in this hot weather.

ORDER IN LARGE OR SMALL QUANTITIES, FROM

W. H. ELLIOTT, Brighton, Mass.

FICUS · ELASTICA.

An extra large stock of fine, strong plants.
Write for special prices.

ANDORRA NURSERIES, Chestnut Hill, Philadelphia, Pa.

Siebrecht & Wadley,

ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.

Palms,
ORCHIDS
Roses,
and New Plants.

FRESH DRACAENA CANES NOW READY.

ORCHIDS.

The Finest Stock in the World.

SANDER'S,
ST. ALBANS,
ENGLAND.

Thirty minutes from London.

Our Mr. A Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City

Established and Imported

ORCHIDS.

Ig. FORSTERMAN,

Newtown, N. Y

PRIMROSES.

Assorted, in 2-inch pots; strong, healthy stock; Rupp's strain, $5.00 per 100; $40.00 per 1000.

ART FLORAL CO.

280 East 40th Street, CHICAGO.

CHOICE SWEET PEAS.

Being the largest growers of the above in the world the trade are invited to send a list of their requirements and secure low prices for Fall delivery.

SHERWOOD HALL NURSERY CO.

Menlo Park and San Francisco, Cal.

We are the People!

Who? KOFFMAN,

Where? WALDEN, Orange Co., N. Y.

What? **SMILAX**

25c. a string; 20c. a string by the hundred; 18c. a string by the thousand.

When? ALL THE YEAR AROUND.

Also Adiantum Cuneatum Fronds
At $1.25 per 100.

And he pays the Express.

WHOLESALE FLORISTS

La Roche & Stahl

N. E. CORNER
13th & Chestnut Sts.,
PHILADELPHIA.

SAMUEL S. PENNOCK,

Wholesale Florist

REMOVED TO REAR OF 42 S. 16th ST.,
Philadelphia, Pa.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO.
Western Agent for the GREAT ANTIPEST.

Kennicott Bros. Co.
WHOLESALE CUT FLOWERS,
34 & 36 RANDOLPH STREET,
CHICAGO, ILL.
WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
126 Dearborn Street, CHICAGO.
Store Closes Nights 9 P. M.; Sunday 2 P. M.

NILES CENTER FLORAL CO.
Incorporated.
WHOLESALE GROWERS OF
CUT FLOWERS of ALL KINDS
and Dealers in FLORISTS' SUPPLIES.
CHAS. W. McKELLAR, Mgr.
In Chicago Cut Flower Exchange,
45 Lake St., CHICAGO.

T. J. CORBREY,
Wholesale and Commission
FLORIST,
45 Lake St., CHICAGO, ILL.
In Chicago Cut Flower Exchange. . . .

A. G. PRINCE & CO.,
Wholesale and Commission
FLORISTS,
45 LAKE STREET,
In Chicago Cut Flower Exchange. CHICAGO.

DAN'L B. LONG,
COMMISSION • FLORIST,
495 Washington St., BUFFALO, N. Y.
FORCING BULBS, FLORISTS' SUPPLIES,
LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application.

H. L. SUNDERBRUCH,
Wholesale Florist
4TH AND WALNUT STREETS,
Cincinnati, O.

HARDY CUT FERNS
LAUREL FESTOONING, ETC.
The only place in the world where you can **Always** get them,
H. E. Hartford,
18 Chapman Place, BOSTON, MASS.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

Wholesale Markets.

Cut Flowers.

NEW YORK, Sept. 11.	
Roses, Gontier	.50
" Meteor	1.00@ 5.00
" Beauty	5.00@15.00
" general assortment	1.00@ 3.00
Carnations	.50@ 1.50
Gladiolus	1.00@ 1.50
Valley	4.00
Auratum lilies	4.00
Asters	.50
Smilax	10.00@12.00
Adiantums	1.00
BOSTON, Sept. 9.	
Roses common	1.00@ 3.00
" fancy	2.00@ 6.00
Carnations	.75@ 1.50
Asters	.50@ 1.00
Gladioli	1.00@ 1.50
Lily of the valley	4.00
Tuberoses	1.00
Japan lilies	1.00@ 2.00
Allamandas	2.00
Sweet peas	.10
Smilax	12.50
Adiantum	1.00
Asparagus plumosus	50.00
PHILADELPHIA, Sept 11.	
Roses	2.00@ 4.00
" Beauties	12.00@15.00
" Meteors	5.00
Carnations	.75@ 1.00
Asters	1.00
Gladiolus	5.00
Valley	4.00@ 5.00
White hollyhocks	.75@ 1.00
Balsams	.25@ .50
Adiantum	.75@ 1.00
Smilax	15.00
Asparagus	50.00
CHICAGO, Sept. 12.	
Roses, Perles, Guillot, Niphetos	2.00@ 3.00
" Albany, Bride	3.00@ 4.00
" Meteor	5.00
" Beauties	8.00@15.00
Carnations	.50@ 1.00
Sweet Peas	.12
Auratum	6.00@10.00
Speciosum lilies	5.00
Hollyhocks, white	.50
Valley	1.00@ 3.00
Smilax	12.00@15.00
Asparagus	75.00

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers AND Florists' Supplies
WHOLESALE.
67 Bromfield Street, BOSTON, MASS.
Mention American Florist.

WHOLESALE FLORISTS,
JOBBERS IN . . . FLORISTS' SUPPLIES, FLORISTS' VASES.
METS, BRIDES, GONTIERS, CARNATIONS, ALWAYS ON HAND.
1 Music Hall Place, BOSTON, MASS.
HORTICULTURAL AUCTIONEERS. . .
Mention American Florist

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St., BOSTON, MASS.

W. ELLISON,
WHOLESALE
Cut Flowers AND Florists' Supplies
1402 PINE STEET,
St. Louis, Mo.

CUT SMILAX,
15 cts. per string till November 1st. Quality first-class Special attention to orders by wire.
J. E. BONSALL & SON, 308 Garfield Ave., Salem, O

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN AND SHIPPERS OF
Choice Flowers.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST,
32 West 30th Street, NEW YORK.
Roses Shipped to all Points. Price list on application.

JOHN YOUNG,
Commission Dealer in
CUT FLOWERS.
WHOLESALE.
46 WEST 30TH ST., NEW YORK.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS,
51 W. 30th St., NEW YORK.

JAMES HART,
WHOLESALE FLORIST,
117 W. 30TH ST., NEW YORK.
The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHRS,
WHOLESALE
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.
Established 1879. . . .

MILLANG BROS.,
Wholesale Florists,
17 WEST 28TH STREET,
NEW YORK.
BRANCH: Cut Flower Exchange, 408 E. 34th Street.

MICHAEL A. HART,
Wholesale AND Commission Florist
113 WEST 30TH STREET,
. . . NEW YORK.
THE FINEST ROSES AND CARNATIONS.
Branch, at Cut Flower Exchange, 408 E. 34th St.

EDWARD C. HORAN,
34 W. 29th Street, NEW YORK,
Wholesale Florist
Careful Shipping to all parts of the country.
Price list on application.

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
WHOLESALE
FLORIST,
1122 PINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and treasurer, 116 Chambers street, New York. Next annual meeting second Tuesday in June, (will probably be held in Toronto.)

Knowledge in the Seed Trade.

BY E. V. HALLOCK.

[*Read before Seedsmen's Session Hort. Congress, Chicago, August 17, 1893.*]

You have heard Mr. Gregory on "Comity." He shows us how pleasant, useful and necessary it is. But comity is one clasp to the jewel case of knowledge. It lays before us in social intercourse much experience of others, a cold, sticky and stony field to work in, but tilled by some much more than by others, and when worked too much is seldom worked at a profit. It lays before us many ideas lying cold and fruitless in many heads, but when put together, like a skillful chemist, produce wonders. It lays before us a knowledge of the men who mould and put their impress on their trade. This imprint of character is stronger than we think. When the last crusaders sailed away from Syria a strange stillness settled over the land. When Napoleon was taken out of France all Europe sat as enchanted without aims. If the firms of Vilmorin, Benary, Deppe, Hurst and Carter, Thorburn and Landreth, Henderson and Burpee, Gregory and Ferry were sponged out of our trade we would feel a great inanition overcome us. Our zest of emulation would vanish, our enthusiasm would ooze out, in fact we would be treading a strange world, and our vanity would not sustain us.

We are told that nature, like the sphinx who sat by the roadside propounding her riddles to passersby (which if they could not answer she destroyed), is of womanly celestial loveliness and tenderness, the face and bosom of a goddess, but ending in claws and the body of a lioness. Of each man she asks daily, in mild voice, yet with terrible significance, "Knowest thou the meaning of this day? What thou can'st do to-day wisely attempt to do." Answer her riddle, it is well with thee. Pass on regarding it not, it will answer itself. The solution for thee is a thing of teeth and claws. To read aright, not alone the technical details of our business, but the past, present and above all, and right here sits the sphinx—the future drift and trend of both men and things is necessary to succeed. By my little "Knowledge in the Seed Trade" I intended to convey a much broader meaning than knowledge of the business; the latter speaks more particularly of things, while the former includes both men and things. The latter would indicate that you were well up in knowing how long a certain seed was good, how to put up five pounds of radish seed and have the bag square and nice. To answer the customer who asks "How much cabbage seed do I need to plant an acre?" (which is usually answered about as correctly as the question asked by the man from Florida on a winter visit to St. Paul when he asks "When shall I plant this tomato seed?") That you know without asking to give the house-wife a wax bean that rusts a little, and the market gardener one that holds its color and don't rust, even if it has a fiddle string on either side of it and is pronounced by him to be the best in the world. In fact a thorough knowledge of the business is more than most of us possess, but knowledge in the business is a "shoreless sea."

A seedsman of to-day must know how to advertise by drummer, newspaper and catalogue. There are diamonds in the earth as fine as any ever taken out of it, but they are hard to find, they do not advertise. Some seedsmen are not hard to find, but find it hard to make people believe them when found. He must know how to get up a catalogue—simple names and prices seem no longer to do—he must wake up the men he wants to sell to by stimulating his imagination and cupidity by well turned descriptions, and perchance by well drawn illustrations, which perhaps will be as large as life and a little more natural. You must at all events arouse in him energy and hopes enough to send you an order, and curiosity enough to include some novelty in the purchase. A seedsman of to-day has many kinds of customers. He has cash customers who always want a few extras and novelties thrown in, and generally get them. He has credit customers and some that never pay. Retail and wholesale customers in the south, north, east and west; in all these localities occur market gardeners for local markets. Shippers for long distances, specialists, canners, kitchen gardeners, etc. When he sells to the trade in these localities he must even know what their customers want. When a market gardener or shipper from Mobile or Kalamazoo sends for a Flat Dutch Cabbage you must know what particular strain is suited to his soil and market. One market wants a flat podded bean, another a round pod; one market wants a red potato, one a white. Men on clay land, men on sandy land, market gardeners south and north ask him to send them seed. To distribute seed that will suit the requirements of all these men and places is a test of an able seedsman.

In regard to credits alone he must exercise great judgment of men and circumstances. Some states to induce settlement, and to protect the small and poor land owner, have made their exemption clauses so large and elastic that they can be made to cover a claim of almost any size; he has boomers with small capital and large credits, poor men with good intentions, people who tell him a pitiful story to get his seed, another who says his seed is no good to keep his money.

He must know the stocks of all growers to a nicety, to get a strain of carrots from one, a beet from another, a radish from France, a lettuce from California. North for this, south for that. It is so now he must keep track of the changes and improvements of stocks that growers make from time to time.

It is necessary to know where the climatic conditions best meet the requirements of each particular seed. This was not thought necessary a few years ago, as many growers forced a product of many kinds in one locality. But competition and annihilation of distance by cheap transportation and knowledge of climatic conditions by some make it necessary for all. I would take the tuberose as an illustration of this. Less than twenty years ago more were imported from France than grown here, twelve years ago 99% were grown north of latitude 40° at probably an average cost of $15 per 1,000, with a selling price of $20. But I know many years when the cost exceeded the selling price. Now 99% are produced below latitude 35° at probably a cost of $6 per 1,000, with seldom a failure of crop. Still it took 6,000 years to find this out. Price of land, cost of labor also enter into the question largely. In the case of the tuberose, climate, cost of land and labor were all favorable. Again in California, where we find the most favorable soil and climatic conditions, we also find land worth $500 per acre, and labor rather uncertain.

He must also know the staple stocks of the principal dealers, so when his contracts and stocks from regular sources run out he will know where to buy when this trade requires from other seedsmen. And here we come to a place where inside knowledge is valuable, we know dealers who are whole souled sociable men, whom we like to meet, but whose stock we would not touch with a ten foot pole at any price. Others who are arbitrary and disagreeable, but whose stock we will have at any price. Candor and confidence comes in here also, if we know our man, and he tells us so and so, we don't mind paying for it, if we are sure to get what we buy. An old German woman with a striking business mein came to us one day for carrot seed. Planting herself in front of the salesman, with arms akimbo, dress and sleeves rolled up, she says, "How much for Danvers carrot seed?" She was told 60 cents and a very fine stock for $1. 25; with a startling suddenness she asks, "Do I get the $1.25 seed if I pay for it?" We got her $1.25 per pound anyway. And here is what we are all wanting to know, do we get what we pay for.

Knowledge is a barrier to fraud. Men who from straightened circumstances will misrepresent in order to make a sale, men who don't care what they sell as a rule, are deterred from doing so when they know the buyer is master of his business. There was a time when many foreign and domestic dealers traded on the ignorance of the buyer, but I warn all who are so disposed, that that time is past; most of our domestic growers and dealers know it, and I warn all foreign dealers and growers that we are beyond that point when we *don't know* what we buy, even if we are so very new. I will further say that many dealers here can refer to their test books and tell you how each particular stock of the foreign grower and dealer compare with each other, and with the growers and dealers of this country. Without going into any closer comparison, I will say to our foreign brothers, that we are coming on fast.

In conclusion, will say, that in times past a customer expected each particular seedsman he bought of to tell him his seed "was the best in the world," of course he did not believe it, but it was a sort of soothing form he had become familiar with. Not so now, you must not only know how good your seed is, but you must know *just how poor it is*. To tell your customer this seed is not just what you would like to give him, that it will germinate so and so, that the quality is not quite up to your best, but is the best you have left, and probably as good as he can get, will do. To tell him it is your best when it is not, is ruinous;—to tell him you *don't know* is worse; it breeds distrust in your customer's mind forever afterwards. He will take seed a little off grade if he knows about how much, but he will never take seed you *don't know about*. A seed, like the children of the earth, to be respected must know its parents. Candor and knowledge are the greatest qualifications of a seedsman.

To our friends from abroad—we welcome you, we wish you could stay longer. You see Europe's hereditary enemies of a thousand years standing, camping, commingling and intermarrying, and living in brotherly love on our open prairies and broad acres. Enemies at home, friends here. People from all climes and nations

DUTCH BULBS.

A full stock now ready. Very close rates on DUTCH HYACINTHS in all grades.

LILIUM CANDIDUM, large, plump, solid bulbs, per 100 $2.75; per 1000 $23.00.

FREESIAS, clean, large, healthy bulbs, first size $4.50; select $7.50 per 1000.

ROMANS, PAPER WHITE NARCISSUS, and a **FULL LINE** of all Fall Stock.

ROSE C. SOUPERT, 2½-inch, fine stuff, per 100 $3.50; 3½-inch, per 100 $8 00.

LATANIAS. 4-inch stuff, grown cold, well rooted, 3 to 5 character leaves, ready for 5-inch pots, per dozen, $4 00; per 100, $30.00.

PHŒNIX RECLINATA, 5-inch, good value at doz. $5.00.

Plant prices are at our Greenhouses.

PANSY, VAUGHAN'S INTERNATIONAL MIXTURE,

Now Ready, is a World Beater.

NEW CROP SEED, per ⅛ oz. $1.50; oz. $10.00. Also separate colors in great assortment.

Vaughan's Seed Store,

148 W. Washington St., CHICAGO. 26 Barclay St., NEW YORK.

live here side by side like brothers. And like the mighty ocean that receives the streams and rivers from all lands, some brackish, some dirty, some poisonous, others vile, but when merged in mother ocean they become one and the same. So will the children of all of these nations become one in the great sea of American citizenship. We have had differences no doubt, some of us may have rules that others think only work one way, but we trust with this meeting, and personal acquaintance we make with one another, that all harsh feelings will disappear or give way before a mutual recognition of justice to both sides.

MESSRS. W. A. BURPEE & CO. are making extensive changes and improvements in their office arrangements at their warehouse.

BOSTON.—Jos. Breck & Sons report trade as fully up to the mark this fall, and contrary to expectations collections are better than usual.

EASTERN NEBRASKA seed growers are likely to have full crops of cucumbers, muskmelons and sweet corn. If any shortage it may be in watermelons.

VISITED CHICAGO: H. C. Stahler, with R. Buist; H. H. Harris, with Northrup, Braslan & Goodwin Co.; S. D. Woodruff & Son; Alfred and Fred S. Plant; W. W. Tracy; H. W. Buckbee.

REPORTS on the retail mail trade for the first ten days of September indicate rather light business; excuses for this may be found, but they are, nevertheless, excuses and not business.

PEAS, early wrinkled sorts, are reported very scarce. Radish, truck dealers hold prices high. Onion Red Wethersfield is said to be in good supply, but some whites are short. French stock may help out.

MR. S. F. LEONARD, who is undoubtedly good authority on onion seed in Chicago, thinks our crop estimate of last week considerably too high. He thinks 25,000 will more than cover the entire crop of Cook county of market sets, omitting of course from the estimate, picklers and onions too large for sale as sets.

LILIUM HARRISII.

Original and largest growers of this important bulb.

OUR SPECIALTY!

True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

Please mention the AMERICAN FLORIST every time you write to an advertiser.



Write for Wholesale List.

MICHEL PLANT AND BULB CO., ST. LOUIS, MO.

HULSEBOSCH BROS.,

BULB AND PLANT GROWERS,

OVERVEEN, near Haarlem, HOLLAND.

	Per 100	1000
Lilium Harrisii, 4 to 5-inch in circ.	$2.20	$19.00
" " 5 to 7-inch in circ.	3.00	24.00
" " 7 to 9-inch in circ	5.25	47.00
" " 9 to 12-inch in circ.	11.00	100.00
Lilium Longiflorum 10 per cent dearer than Lilium Harrisii.		
Roman Hyacinths, extra selected	2.50	22.00
" " " top roots	3.00	25.00
Narcis. Totus Albus, extra selected	1.00	7.50
" " " Grandiflor'm, ext s'l'c'd	1.50	11.00

Fall Wholesale Catalogue now ready. Address

A. HULSEBOSCH,

P. O. Box 3118. Warehouse 58 West Street,

NEW YORK CITY.

SEND for Catalogue of



JAPAN BULBS. SEEDS and SHRUBS, ARAUCARIAS, TREE FERNS, AUSTRALIAN PALM SEEDS, CALIFORIA BULBS and SEEDS to

H. H. BERGER & CO.,

Established 1878. SAN FRANCISCO, CAL.

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to

Seed Bags and Catalogue Envelopes.

NEW HAVEN, CONN.

BULBS! BULBS!

Lilium Auratum, Spec. Rubrum, Spec. Album, Longiflorum, etc. Order now.

Callas, Callas, at lowest rates: Fresh Cut Cycas leaves, prices and sizes to suit all. Fresh imported Cycas, lowest prices. Camellias, Pæonias, Japan Maples, and for general Japanese stock seeds. Remember we guarantee sound delivery, still goods travel at owner's risk. Apply to

F. GONZALEZ & CO.,

Nursery and Greenhouses, 303 to 312 Wayne Street, SAN FRANCISCO, CAL.

Watson's Corner

"You in your small corner, me in mine."—Nursery Rhyme.

September is a good month for the second sowing of

PANSY SEED.

My strain is very choice; large flowers and beautiful colors; try some of it. Contains a good percentage of the *true* Bugnot, direct from Paris. Price $8.00 per ounce; Trade pkts. at 50 cents and $1.00 each.

My first shipment of the

W. P.

Mushroom Spawn is now to hand in splendid condition. Write for prices. Let me figure on your wants in Fall stock. Forcing Bulbs, field-grown Carnations, Roses, Palms, etc. I can save you money.

G. C. WATSON,

Wholesale Seedsman and Commission Merchant,

1025 Arch St., Phila., U. S. A.

HYACINTHS, TULIPS.

Full assortment ready now. Our stock is A No. 1 in every way.

FREESIAS.

Select Stock. Per 100, 75 cents; per 1,000, $4.50.

PANSY SEED

BARNARD'S FLORIST MIXTURE is popular wherever tried. Trade packet, 25 cts.; ⅛ ounce, $1.00.

W. W. Barnard & Co.

6 and 8 N. Clark Street, CHICAGO.

Send for Fall Bulb Catalogue.

Bulbs.

New List now ready; free to applicants. Address . . .

August Rölker & Sons,

P. O. Station E, NEW YORK.

NOW READY.

ROMANS,
HARRISII,
NARCISSUS,
P. W. GRANDIFLORA,
CANDIDUMS.

WISCONSIN FLOWER EXCHANGE,

468 Milwaukee St., Milwaukee, Wis.

Bulbs and Plants.

FOR CATALOGUES, ADDRESS

C. H. JOOSTEN,

IMPORTER,

3 COENTIES SLIP, NEW YORK

We Sell Mushroom Spawn.

LILIUM HARRISII AND DUTCH BULBS.

Special Low Prices to Florists and Dealers.

WEEBER & DON,

Seed Merchants and Growers,

114 Chambers St., New York.

Mention American Florist.

VICTOR SPRAY PUMP.

The most wonderful pump ever invented. Requires no foot-rest or support. Send for prices.

HENION & HUBBELL, 55 N. Clinton St., Chicago, Ill

Toronto.

The great industrial exhibition is now open, and promises to be a greater success than ever. The horticultural show is certainly the best that has been held as regards stove and greenhouse flowering and foliage plants, palms and ferns, and one is perfectly safe in saying that no city in the United States or Canada, outside of Boston and (perhaps) New York, could put up such a fine lot of plants, and this too with nearly all the plants in the World's Fair exhibit away.

The section calling for the most tastefully arranged table 19x16 feet brought out good competition, the prizes being of decent dimensions ($100, $75, $50 and $25). Three florists and three public institutions exhibited, Manton Bros., W. J. Laing, J. Cotterill, Reservoir Park (G. Reeves), Central Prison (W. Houston), and Exhibition Park (J. Chambers). The size of these tables makes it possible for a good decorator to spread himself a bit and to show his good specimens off to advantage, but four of the exhibitors stuck to the old time pyramid—high in the middle sloping evenly down to the edges—and the judges awarded three of them the three best prizes. Is it not time that this clipped pyramid was given up for something a little more artistic and tasty? The beauty of fine specimen plants is half thrown away where only the top or one side can be seen. Plants should be allowed to show their characteristic form too. I must say that I was very much surprised and sorry to see the way the prizes were awarded, and with all respect to the other two judges I think that Mr. Foster would have done better if he had been alone; there is no doubt but that it takes some courage to judge alone, and I venture to express the opinion that Mr. Foster is sorry now that he asked for assistance. I believe that the Gardeners' and Florists' Association of this city is almost a unit in favor of a single judge.

Geo. Reeves, of Reservoir Park, was awarded first prize, and there is no doubt it was the best of the pyramids, though a little less color and more green would have improved it. John Cotterill was second with a pyramid of good plants, but here a little more color was wanted. John Chambers, Exhibition Park, was third with another pyramid of splendid plants, but the arrangement not quite up to the mark. W. J. Laing, fourth, with altogether the prettiest arrangement of any, though the plants were not so good, and it wanted a little more color. Manton Bros.' table (not a pyramid) was full of fine healthy grown plants, interspersed with lots of tuberous begonias, and was also very prettily arranged, it wanted a taller palm in the big mound though. It certainly should have had a place. Mr. W. Houston, Central Prison, had a handsome table with some magnificent specimens, but they were not shown to advantage. I hope to send a report of the other exhibits next week.

Mr. H. J. Cole has opened a store in the Rossin House block on King street, and should do a rushing business there. E.

HEADQUARTERS for WATER LILIES

SEEDS, TUBERS AND PLANTS, ready for shipment at all seasons and to all parts of the world. Don't fail to inspect our Columbian Exhibit at the World's Fair.

Illustrated Catalogue on application.

WM. TRICKER, DONGAN HILLS NEW YORK.

Always mention the American Florist when writing to advertisers.

FLORISTS BULBS UP TO DATE

CONDITIONS. **We guarantee good, sound Bulbs of first quality or no sale,** and if not such, they can be returned at our expense, if **within five days after receipt by you.**

OUR TERMS. **We allow 4 months Credit, or 5 per cent. discount for cash in 10 days from date of bill. Bills under $25.00 are net.**

A HELPER. **We furnish free** to our customers buying bulbs of us to sell again, a nice retail catalogue with **their** name and address **alone** on it. Priced to give a good margin of profit and yet attract to **them** local orders.

YOU WANT **our Wholesale Price List before buying if you have not already had it, write for it.** Prompt answers to all letters.

WE ARE READY TO DELIVER

	Per 100	Per 1000
DUTCH HYACINTHS. Single or Double, Red, White and Blue, colors and shades separate. Your selection	$2.75	$25.00
SECOND SIZED NAMED VARIETIES (a bargain for florists). Equal quantities Red, White and Blue, our selection	4.00	35 00

Finest sorts for forcing and only those producing large spikes. Names and colors marked.

TULIPS.

SINGLE OR DOUBLE, fine Mixed Early sorts		1.00	7.50
" " Extra Selected sorts for forcing		1.50	12.00
" " Fine Mixed LATE sorts		1.50	12.00
SINGLE NAMED VARIETIES, best Scarlets mixed		1.75	14.00
" " " best Yellow mixed		2.25	20.00
" " " best Whites mixed		1.75	14 00
" " " best Pink mixed		2.25	20.00
" " " best Striped mixed		1.75	14.00

These mixtures of Named Tulips will be all true to colors specified, and embrace in each color some of the very finest sorts of that color.

We are prepared to quote **bottom prices** on all leading varieties of Florists Tulips by the 100, 1000 or 10,000 of a kind, such as **Yellow Prince, La Reine, Belle Alliance, Chrysolora, Keiserskroon, Pottebaker, etc.**

NARCISSUS, or DAFFODILS.

	Per 100	Per 1000
Von Sion (Double Yellow), First size	$1.75	$16.00
Von Sion " " Extra Selected	2.50	22.00
Double Roman (Constantinople)	1.25	10.00
Orange Phœnix (Double White and Orange)	2.00	17.50
Trumpet Major (True Single Daffodil)	2.00	17.50
Paper White, fine bulbs	1.00	7.50
" " grandiflora	1.25	10.00
ROMAN HYACINTHS. Pure White, 11x15	2.50	21.00
" " 11x12	2.00	16.00

LILIES.

Lilium Candidum. Magnificent Bulbs	2.50	20.00
" Harrisii. Choice, 5x7	2.75	25.00
" " Choice, 7x9	5.00	48.00
" " (now scarce), 9x11	12.00	
WHITE CALLA. First Size Roots	8.00	
Selected, Large Roots	10.00	

FREESIA.

First Size, our own selected	1.00	7.50
Extra Large, our own selected	1.25	10.00
French grown, very good	.75	6.00
Bermuda grown (long bulbs)	.50	4.00
ALLIUM NEAPOLITANUM. Fine large bulbs	.75	5.00
CROCUS. Fine Mixed, White, Blue, Striped Yellow and all colors.	.30	2.50
Named Varieties, Extra bulbs	.50	4.00
LILY OF VALLEY. Fine Berlin Pips (in cold storage)	1.50	12.00
ANEMONE FULGENS. Scarlet Wind Flower	1.50	12.00
SCILLA. Peruviana Alba	5.00	
GLADIOLUS. SHAKESPEARE, New Extra, Earliest Forcer—beautiful white, suffused carmine rose with large rose blotch, large flower of great substance	8.00	
ORNITHOGALUM. Arabicum, (Star of Bethlehem), large bulbs	1.50	12.00

WRITE FOR OUR PUBLICATIONS ON BULBS

MUSHROOM SPAWN. Finest English mill track, $9.00 per 100 pounds.

Z. DE FOREST ELY & CO.

Wholesale Bulb Growers and Importers.

1024 Market St., PHILADELPHIA, PA.

P. O. BOX 1176. TELEPHONE 3415.

REGISTERED CABLE ADDRESS: DE FOREST, PHILA.

1000 SMILAX.

Extra Strong Plants.

The lot for $18.00 cash with order. Sample sent.

Also several thousand good **Field-grown Carnations.**

J. C. RENNISON,
SIOUX CITY, IOWA.

Association "Flora"

BOSKOOP, HOLLAND

NURSERIES.

Roses, Clematis, Shrubs, Azaleas, Palms, Herbaceous Plants, Bulbs, Etc.

Catalogue on Application.

P. OUWERKERK,
206 Cambridge Ave., JERSEY CITY, N. J.

Cyclamen Seeds.

KOCH'S SUPERB PRIZE CYCLAMEN.

THE FINEST STRAIN IN THE WORLD.

Bright dark red	1000 seeds $4.50
Rose of Marienthal	1000 seeds 4.50
White with carmine eye	1000 seeds 3.75
Mont Blanc, extra	1000 seeds 6.25

Cash with order.

LUDWIG KOCH, Wandsbek, Hamburg, Germany.

Phœnix rupicola.

This useful and beautiful Date Palm in **EXTRA FINE PLANTS**, growing in from 7 to 10-inch pots, from $3.50 to $7.50 each, according to size.

EDWIN LONSDALE, Wyndmoor, STATION "G," (Chestnut Hill P. O.) PHILADELPHIA.

CATALOGUE PRINTING. ELECTROTYPING.

Done with expert ability for Florists Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.,
HARRISBURG, PA.

Fern

PTERIS TREMULA, in 2 and 2¼-inch pots, $4.00 per 100. $35.00 in 500 lots.

Cash with order. Address

R. WITTERSTAETTER,
SEDAMSVILLE, OHIO.

VIOLETS. ROSES. VIOLETS.

Our violets are positively free from disease.

	Per 100	Per 1000
Violets Marie Louise, fine cuttings	$ 2.50	$25.00
Roses Gen. Jacqueminot, from 3-in. pots.	8.00	75.00
Roses Gen. Jacqueminot, from 4-in. pots.	6.00	55.00
English Ivies, 4 to 6 feet long, pot grown.	5.00	

When ordering, give directions how to ship. Cash with order, 5 per cent. discount.

JOHN RECK, Bridgeport, Conn.

CYCLAMEN persicum giganteum, 3 inch pots $6.00 per 100

PANSIES, Mammoth Strains, 75 cts. per 100 $5.00 per 1000.

CARNATIONS, Dorner's Seedlings, $15 per 100
Daybreak . . . $8.00 to $10.00 per 100
McGowan, Puritan, Wilder, and others, $8.00 per 100. Second size $6.00 per 100

Correspondence solicited.

Address **J. G. Burrow,**
FISHKILL, N. Y.

$20.00 buys 250 well grown Chrysanthemums from 5-inch pots.

Caruations from open ground	6 to 8 cts.
Cyclamens, large bulbs	8 to 10 cts.
Smilax, strong 3-inch pots	4 cts.
Niphetos Roses, 3½-inch pots	5 cts.
Buttercup Carnations, pot grown, 3½-in.	6 cts.

McCREA & COLE, Battle Creek, Mich.

SPECIAL -$10.00- OFFER,

FOR A LIMITED PERIOD ONLY.

To introduce our specialties we make this special offer of

1 STOTT DISTRIBUTER.
1 STOTT SPRAYER (The best made.)
20 lbs. KILLMRIGHT (Non-poisonous, but Death to Insects.)

FOR $10 CASH.

Will clean your Greenhouses and out-door plants of Aphis, Mealy Bug, Caterpillar and other insects. Order through your seedsman, or direct of

ENDORSED BY LEADING FLORISTS EVERYWHERE.

WITH PROPER USE, SATISFACTION GUARANTEED.

THE STOTT GARDEN IMPL'T CO.,
136 Liberty Street,
NEW YORK.

TO STOTT GARDEN IMP'T CO., 136 Liberty Street, New York.

Dear Sirs:—We have been using your **Distributer and Killmright** for six months and consider it a good thing. It is the best thing ever got out. For roses it is particularly good. It cures a rose plant of black spot and mildew and keeps them in a healthy and growing condition. We never use tobacco smoke now. It will certainly ultimately kill the mealy bug. We will keep it right along and want nothing else.

Signed, BOLANZ BROS., Akron, O.

3,000 Azalea Indica,

Full of buds, best kinds, in splendid condition,

JUST ARRIVED.

MUST BE SOLD AT ANY PRICE.

LUDWIG SCHILLER,

German Hort. Department, WORLD'S FAIR.

HOW TO GROW CUT FLOWERS.

A PRACTICAL TREATISE ON

THE CULTIVATION OF THE ROSE,

And Other Flowering Plants for **Cut Flowers**, sent to any address upon receipt of **$2.00.**

M. A. HUNT, Terre Haute, Ind.

Increase Your Business

by fostering an interest in plants and flowers among the people in your vicinity. You can best do this by getting subscribers to

GARDENING . . .

which tells people how to get the most satisfaction out of their gardens, and stimulates them to enlarge and extend their gardening operations.

$1.00 A YEAR is the subscription price of this paper, which is issued twice a month, is handsomely and truthfully illustrated, is thoroughly practical, absolutely free from wind and gush and grinds no axes for anyone.

SPECIAL LOW RATE to florists who will act as agents. We want an agent in every city and town in America. Write for terms now to

THE GARDENING CO.
Monon Building, CHICAGO.

LITTLE'S ANTIPEST.

— A —

Valuable Discovery of the 19th Century.

SILVER MEDAL AWARDED

— BY THE —

CALIFORNIA STATE FAIR OF 1890.

This preparation is a sure destroyer of the **Scale, Wooly Aphis** and **Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure** and **Cheap.** No fruit grower or florist should be without it.

Send for Circulars and Price List.

R. W. CARMAN, General Agent,
291 AMITY STREET,
FLUSHING, Queens, Co., N. Y.

Fine Asters.

ED. AM. FLORIST:—I herewith send for your inspection a fair sample of what we consider the finest strain of asters, at least in this section. The pink is the Mary Semple, the white Semple's White. It was my good fortune to see Mr. Semple's stock at Bellevue, Pa., and I must confess I have never seen such a beautiful show of asters. I don't know that I am giving away state secrets when I say they are grown in an orchard, on a hillside, in moderately poor soil with little if any fertilizer. The conditions, however, conspire to make them perfect in form and color and free them entirely from the ravages of the black bug and numerous other pests that have totally destroyed many other beds of asters that gave every promise of fine flowers. Mr. Semple may be pardoned for the jealous care with which he looks after his favorite stock. N. PATTERSON.

Pittsburg.

[The flowers are certainly grand. The pink is a very taking shade, reminding one of that shown by Lillian B. Bird chrysanthemum when at its best. The flowers average three and one-half inches in diameter, and are on stems from twelve to fifteen inches long, each clothed with handsome foliage. We imagine they would be hard to beat.—ED.]

THE AMERICAN FLORIST and *Gardening* together to one address for $1.75. Send orders to the American Florist Co.

BOSTON FLORIST LETTER CO.,

13 Green Street, BOSTON, MASS.

Address all correspondence to 1 Music Hall Place.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1½-inch and 2-inch, $2.00 per 100. Patent fastener with each letter.

With orders for 500 letters we give away a nicely stained and varnished box. See cut in next week's American Florist.

Our letter is handled by all the wholesalers in Boston.

AGENTS: Marschuetz & Co., 25 N. 4th St., Philadelphia, Pa ; A. Rolker & Sons, New York; F. E. McAllister 22 Dey St., N. Y.; Ernst Kaufmann & Co., 113 North Fourth Street, Philadelphia; H. Bayersdorfer & Co., Philadelphia, Pa.; A. D. Perry & Co., 33 Warren Street, Syracuse, N. Y.; A. C. Kendal, 115 Ontario St., Cleveland, O.; E. H. Hunt, 79 Lake St., Chicago; Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.; H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.; T. W. Wood & Sons, 6th and Marshall Sts., Richmond, Va.; Jas Vick's Sons, Rochester, N. Y ; Dan'l B Long, Buffalo, N. Y.; C. A. Kuehn, St. Louis. F. C. Huntington & Co., Indianapolis, Ind.

J. A. Simmers, Toronto, Ont., Agt. for Canada.

WARNING.

A party in Williamsport, Pa., named Chas. E. Montgomery, is making and offering for sale letters which are an infringement upon our patent, and are also much inferior to those manufactured by us. We have notified them of suit unless they desist at once. Buy no letters except through our authorized agents.

BOSTON FLORIST LETTER CO.,
1 Music Hall Place, Boston, Mass.



W. C. KRICK'S

PATENT

Florists' Letters, Etc.

Highest award wherever exhibited.

These Letters are made of the best immortelles, wired on wood or metal frames having holes drilled in them to insert toothpicks, by which to fasten them in the design. All infringements prosecuted.

2-inch Letters, $3.00 per 100.
Postage, 15c. per 100.

Before purchasing send for free sample and Catalogue and compare with any other letter in the market.

W. C. KRICK, 1287 Broadway, BROOKLYN, N. Y.

Agents:—J. C. VAUGHAN, Chicago, Ill.; H. BAYERSDORFER & Co., Phila., Pa.; N. STEFFENS, N. Y.; AUG. ROLKER & SONS, N. Y.; ED. S. SCHMID, Washington, D. C.; JAMES VICK'S SONS, Rochester N. Y.; T. W. WOOD & SONS, Richmond, Va.; J. A. SIMMERS, Toronto, Ont.

A FIRST-CLASS

Certificate of Merit

—TO—

B. BAYERSDORFER & CO.

—FOR—

The Best Exhibit of

FLORISTS' SUPPLIES.

The only Certificate of Merit awarded for Florists' Supplies at the S. A. F. Convention at St. Louis.

Our Fall Specialties:

CELLULOID FLOWER BASKETS,
POT COVERS AND PEDESTALS,
FERNERIES IN NICKEL, GOLD, SILVER AND BRONZE.

THE LATEST NOVELTIES IN

French and German

Metal Wreaths

GYGAS LEAVES.
WHEAT SHEAVES.

NEW STOCK OF IMMORTELLES JUST ARRIVED PER S. S. SWITZERLAND.

Lowest Prices furnished on application.

H. Bayersdorfer & Co.,

56 N. 4th St.,

PHILADELPHIA, PA.

WHOLESALE ONLY.

Cape Flowers, new crop in best white quality at $1.00 the lb.; 10 lb. lots, $9 net.

Cycas Leaves (Sago Palms), natural prepared, equal to fresh cut in appearance, from 28-in. upwards, at 40c., 45c., 50c., 60c., 75c. and $1.00 each, according to length.

Metal Designs, Wreaths, Crosses, Anchors, etc. in the latest French styles, from 50 cents net apiece upwards.

Baskets of all styles, Plain and Fancy, for School Commencements, Dinners, Receptions, Favors, etc.

Supplies of all kinds, such as Bouquet Papers, Wax Paper, Foil, Immortelles, Letters, Wire Designs, Funeral Sheaves, Doves, etc. For prices consult our

Trade Catalogue, mailed free.

August Rölker & Sons,

136 & 138 W. 24th St., P. O. Station E. **New York.**

MARSCHUETZ & CO.,

Florists' Supplies,

23 & 25 N. 4th St., PHILADELPHIA, PA.

Send for Catalogue.

ERNST KAUFMANN & CO.,

Florists' Supplies,

113 NORTH 4TH STREET,
PHILADELPHIA, PA.



WHITE DOVES

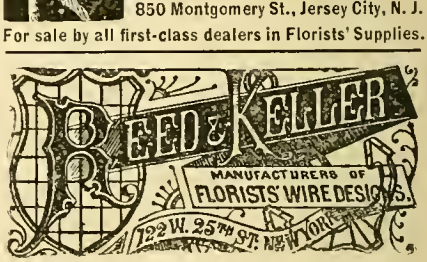
FOR FLORISTS.

Largest and finest stock in the United States. Write for prices to

S. J. RUSSELL,

850 Montgomery St., Jersey City, N. J.

For sale by all first-class dealers in Florists' Supplies.



CUTS!



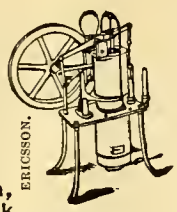
Wood Engraving,
Zinc Etching,
Half-Tone,
Wax Engraving, Photo-Engraving,
Designing.

MANZ & CO.,

183 Monroe Street, CHICAGO. **ENGRAVERS.**

Mention the American Florist when writing to advertisers on this page.

WATER
For Your GREEN HOUSE, ROSE HOUSE, NURSERY,
Conservatory, Lawn, House, Garden, Stock or any other purpose.
Send for Illustrated Catalogue OF THE
DE LAMATER-RIDER AND DE LAMATER-ERICSSON
PUMPING ENGINE.



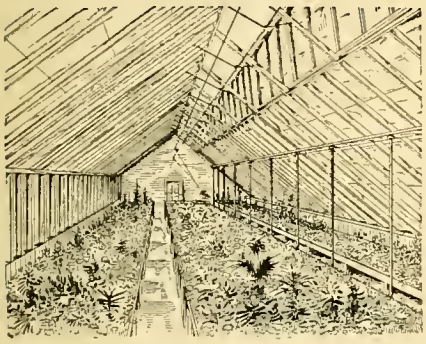
HOT-AIR PUMPING ENGINE.

Their operation is so simple and safe that a child can run them. They will pump water from shallow streams or any kind of well. They can be arranged for any kind of fuel. Capacity 1,500 to 30,000 gallons of water a day, according to size.



The De Lamater Iron Works,
87 South Fifth Avenue,
NEW YORK, N. Y.

THE CHAMPION

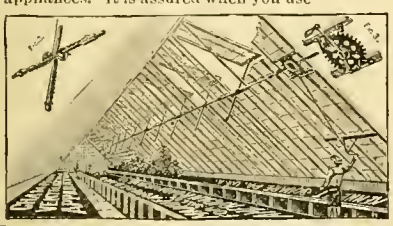


Automatic Ventilator.

The cheapest, easiest to operate, and by far the best machine in the market. Don't buy a Ventilator until you have seen my illustrated descriptive circular, which will be sent you free, giving prices, etc. Also Champion Soil Pulverizer and Sifter.

Address, **E. E. WOLF,**
Box 114. SPRINGFIELD, O.

UNIFORM VENTILATION
is something you cannot secure with all ventilating appliances. It is assured when you use

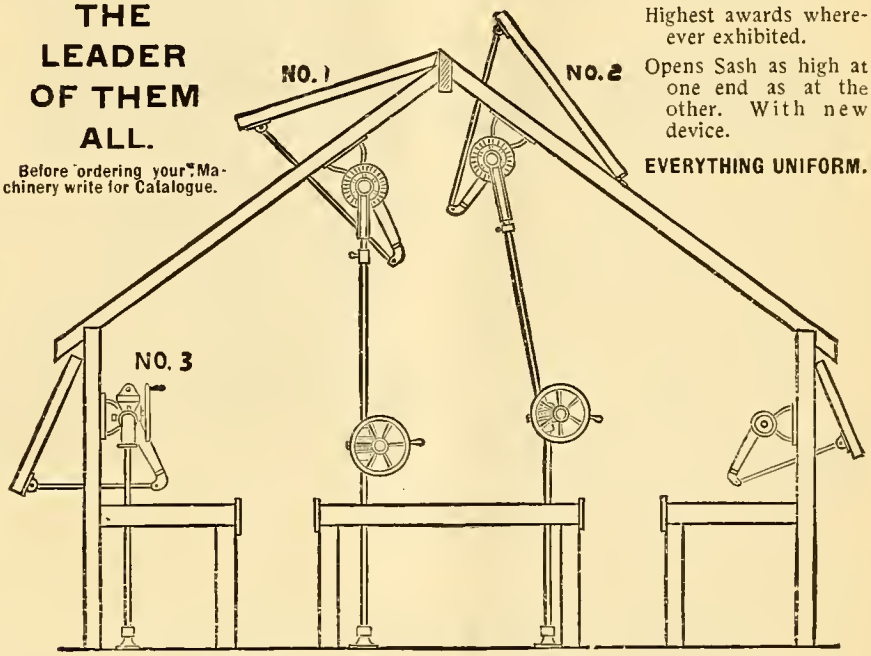


The Champion Ventilating Apparatus
SIMPLE, DURABLE, EFFICIENT, CHEAP.
☞ Circular is yours for the asking. Address
AMERICAN ROAD MACHINE CO.,
. . . . Kennett Square, Pa.
Mention American Florist.

EVANS' IMPROVED
CHALLENGE VENTILATING APPARATUS
Write for Illustrated Catalogue.
QUAKER CITY MACHINE WORKS, Richmond, Ind.

FLORAL DESIGNS
The Cut Flower Worker's Friend. Fine book of 160 pages. Send $3.50 for it, to
J. HORACE McFARLAND, Harrisburg, Pa.

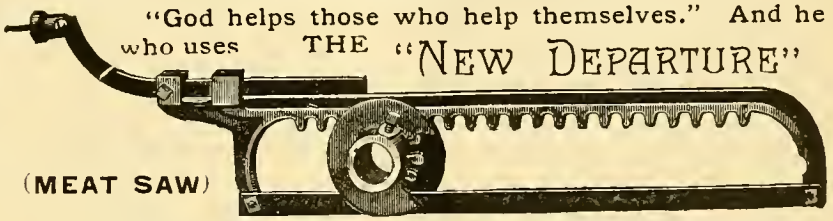
STANDARD VENTILATING MACHINERY,
THE LEADER OF THEM ALL.
Before ordering your Machinery write for Catalogue.



Highest awards wherever exhibited.
Opens Sash as high at one end as at the other. With new device.
EVERYTHING UNIFORM.

E. HIPPARD, YOUNGSTOWN, OHIO.

"God helps those who help themselves." And he who uses THE "NEW DEPARTURE"



VENTILATING APPLIANCE
helps himself and those who help him in his labors, and is therefore doubly blessed. Send for price and description.

J. D. CARMODY, Evansville, Ind.
Or call and see the man and machine at his greenhouse office, located on the lawn west front of Horticultural Building, World's Fair grounds, Chicago, Ill.

TOBACCO STEMS AND DUST.
STEMS—In 100 lb. bales, $1.00. In 500 lb. bales, $4.00. By the ton, $10.00.
TOBACCO DUST—A most valuable insecticide for Violets, Roses, Chrysanthemums, etc; also for fumigating; in 100 lb. lots, $2.00, f. o. b.
Pye & Mueller,
P. O. Box 1066. KINGSTON, N. Y.

OUR Sash Lifter AND Hinges
will do the work and cost you less than any other. Send your name and address and we will mail you description and price.
BAY STATE HARDWARE CO.
272 Freeport Street, BOSTON, MASS.

Send orders for . . .
CLEAR CYPRESS
Greenhouse Material
from bottom of gutter up.
Correspondence solicited. Estimates cheerfully furnished.
LYMAN FELHEIM, ERIE, PA.

When writing to any of the advertisers on this page please mention the American Florist.

J. N. STRUCK & BRO.
Manufacturers of
• CYPRESS •
Greenhouse Material,
LOUISVILLE, KY.
Mention American Florist.

STANDARD HOSE MENDER.



The only Mender using ordinary galvanized wire No. 14, instead of expensive bands. Any person can handle it with perfect ease. Thousands in use and all testify to its Wonderful Merits.
Sample Box, by Mail, 50 cts.
E. HIPPARD, Youngstown, Ohio.
Mention American Florist.

Newport, R. I.

The Newport Horticultural Society held a picnic on September 6. The society secured a large grove where there was a dancing pavilion and all the requirements that go to make up a first class picnic. The sale of tickets was limited to the members of the society and their friends. The attendance was about three hundred people, including several prominent politicians of the state.

The attractions were numerous, consisting of a base ball game, cricket, tug of war match, quoits, throwing the heavy hammer and various other amusements. For the entertainment of those that went out on the early drags the committee secured the services of a popular song and dance comedian.

The base ball game was captained by two popular gardeners, namely, "Jack Allan" and "Joe Gibson." Joe Gibson had secured the services of a celebrated pitcher and the score stood 7 to 2 in favor of his nine.

There was no regular cricket match on, but there were a great many present who had played the game when in the "old country," and hadn't forgotten how to handle the bat and they seemed to thoroughly enjoy this sport. The tug of war match between the married and single men was well contested, the single men winning in the best two out of three.

After the base ball game a regular good old fashioned Rhode Island clam-bake dinner was served, which apparently was very much enjoyed by all present. The dancing pavilion had at all times a good attendance, and from the merry peals of laughter and shouting therein there was no doubt that this part of the program was being thoroughly enjoyed.

This was the second annual "outing" of the society and it was pronounced a grand success in every respect.

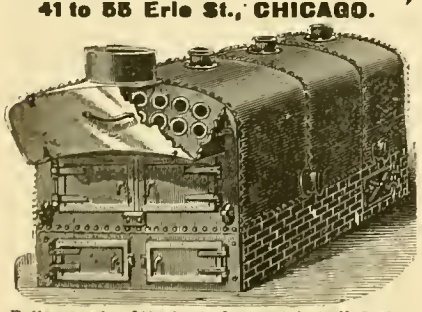
Neighborly Courtesies.

A postal card bearing the following was recently received by the superintendent of a certain State Fair.

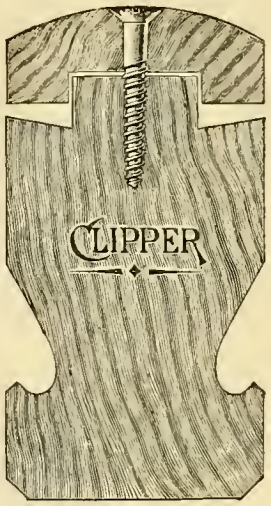
To the Superintendent of the Horticultural Exhibition; Dear Sir:—If Mrs. S—— shows Gladiolnses at your fair she stole them. She took them from my garden without my knowledge or permission. Yours truly, Mrs. A——.

SAN FRANCISCO.—Paul W. A. Grallert and Chas. Fick have formed a partnership under the title of Grallert & Co., and have rented greenhouses at Colma, where they will grow cut flowers and plants for the San Francisco market, making a specialty of carnations.

KROESCHELL BROS.
IMPROVED
Greenhouse & Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around front, sides and back). Write for information.



Mention American Florist.

THE "LOCKLAND"
Sash Bars
ARE ALWAYS SATISFACTORY.

This cut represents our improved Clipper Bar for Butted Glass roof—putty to be used under glass only.

GUTTER MATERIAL, RIDGES, SASH, ETC.
The finest CLEAR CYPRESS used.
Write for circulars and estimates. . . .
LOCKLAND LUMBER CO.
Lockland, O.

"Standard" Flower Pots.
As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address
The Whilldin Pottery Company,
BRANCH WAREHOUSES: 713, 715, 717 & 719 Wharton St., Philadelphia, Pa.
Randolph Ave. and Union St., Jersey City, N. J.
Jackson Ave. and Pearson St., Long Island City, L. I.

STANDARD FLOWER POTS
Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.
A. H. HEWS & CO., N. Cambridge, Mass.

Standard Flower Pots.
We wish to notify the trade that this summer we have made great improvements in machinery and have also discovered a better clay, so that we are now manufacturing FLOWER POTS that can't be beat. We have the assurance of a host of our customers, that our make are the best in the market. Bear in mind that freight rates are very low from this point, and we claim that our way of packing saves you freight charges. Send for circulars, or we will send you figures on any quantity you want.
SIPFLE, DOPFFEL & CO., SYRACUSE, N. Y.

STANDARD FLOWER POTS.
OLD RELIABLE MAKE OF
ELVERSON, SHERWOOD & BARKER.
Write for Catalogue and Price List.
PITTSBURGH CLAY MFG. CO. New Brighton, Pa.

STANDARD FLOWER POTS
Our new **Pottery**, new **Machinery**, the very **best Clay** in the **Country**, and our new **Patent Kilns**, all combined, make the **best Standard Pot in the market.** Send for price list.
PARMENTER MF'G COMPANY,
GEORGE MESSINGER, Manager. East Brookfield, Mass.

STANDARD FLOWER POTS.
Price List.

2 -inch,	Per 1000	$3.25	7-inch,	Per 100	$ 3.50
2½-inch,	"	3.50	8-inch,	"	5.00
2½-inch,	"	4.00	9-inch,	"	7.50
3 -inch,	"	5.00	10-inch,	"	10.00
3½-inch,	"	7.25	11-inch,	"	15.00
4 -inch,	"	9.00	12-inch,	"	20.00
5 -inch,	"	13.80	14-inch,	"	40.00
6 -inch,	"	22.00	16-inch,	"	75.00

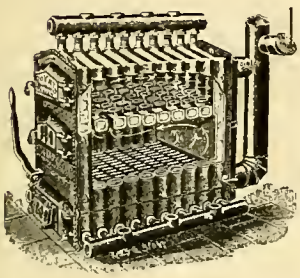
Terms cash. f. o. b. Address
HILFINGER BROS. POTTERY, Fort Edward, N. Y.

GURNEY Hot-Water Heaters FOR Greenhouses,
Send for a copy of our book "How best to heat our houses."
GURNEY HOT-WATER HEATER CO.
163 FRANKLIN ST., BOSTON.
Branch Office: 59 Wabash Avenue, Chicago, Illinois.
Selling Agencies: Johnson & Co., 71 John St., New York City. J. C. F. Trachsel, 246 Arch St., Philadelphia

WHEN writing our advertisers please use one of your printed business letter heads or enclose your business card.

Always mention the American Florist when writing to advertisers.

ROYAL HEATERS
TRADE MARK
UTICA, N.Y.



HART & CROUSE,
UTICA, N. Y.



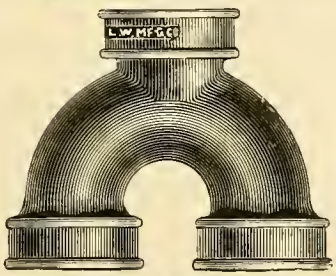
SCOLLAY'S
IMPROVED
PUTTY BULB,
For Glazing Sash, Etc.
—ALSO THE—
Patent Plant Sprinkler
For sale by your Seedsman, or sent, postpaid, for $1.00.
JOHN A. SCOLLAY,
74 & 76 Myrtle Ave.,
BROOKLYN, N. Y.
Send Stamp for Catalogue.

SMILAX AND ASPARAGUS
TRAINED ON GREEN
SILKALINE
Are in the best possible condition for the market.
For particulars address
JOHN C. MEYER & CO.,
289 DEVONSHIRE ST., BOSTON, MASS.

TRADE MARKS. COPYRIGHTS.
SOLICITOR OF U. S. AND FOREIGN PATENTS,
Atlantic Building, Washington, D. C.
(Send sketch or model for free examination as to patentability.)

Greenhouse Pipe and Fittings.





Large quantities of our Pipe are in use in Greenhouses throughout the West, to any of which we refer as to its excellent quality.
Pipe can be easily put together by any one, very little instruction being needed.
GET THE BEST.
Hot-Water Heating, in its Economy and Superiority, will repay in a few seasons its cost.
Mention American Florist.
L. WOLFF MFG. CO., 93 to 117 W. Lake Street, CHICAGO.
WRITE FOR ILLUSTRATED CIRCULAR.

H. M. HOOKER COMPANY,
57 and 59 W. Randolph Street, CHICAGO,
NATURAL GAS MADE GLASS
FOR GREENHOUSES.
Write for latest prices.

D. H. ROBERTS,
159 and 161 S. Fifth Avenue, - NEW YORK,
NATURAL GAS MADE GLASS,
FOR ROSE HOUSES, CONSERVATORIES, ETC., ETC.
☞ Look at our WORLD'S FAIR EXHIBIT in Horticultural Building.

FRENCH GLASS For CONSERVATORIES, ROSE HOUSES, Etc. Etc.
VANHORNE, GRIFFEN & CO.,
Importers of PLATE and WINDOW GLASS. Manufacturers of BENT GLASS and FRENCH MIRRORS.
131-133-135-137 FRANKLIN STREET, NEW YORK.
Note—Imported Glass is used in the best grade of Greenhouse building.



Pat. 1882, '85, '86, '88, '90, '91.
FOR WATER, AIR, STEAM, ACIDS, OILS, LIQUORS, GAS, SUCTION,
And for any and every purpose for which a hose can be applied.
Sizes, ⅛-inch to 42 inches diameter.
The making, vending or use of any Serviceable Armored Wire Bound Hose not of our manufacture is an infringement on one or more of our Patents. The rights secured to us render each individual dealer or user responsible for such unlawful use with all the consequences thereof. For prices and discounts address WATERBURY RUBBER CO., Sole M'f'rs and Owners of all the *Sphincter Grip Armored Hose Patents*, 49 Warren Street, New York.
J. C. VAUGHAN, Agent, CHICAGO.

MOSS.
CHEAP FOR WINTER. . . .
Fine Moss for Funeral Work and Orchids. 60c and 75c. per pound.
A. K. Savacool,
EAST STROUDSBURG, PA.

GLASS. ROCK BOTTOM PRICES. Send for Estimate. Satisfaction Guaranteed.
REED GLASS CO.,
65 Warren St., and 46, 48 & 50 College Place,
New York City.

FLORISTS' HOSE,
Made by E. W. Holt, member of the Society of American Florists.
Goodyear Rubber Store,
2 W. 14TH ST. NEW YORK.

HAIL LOCK THE DOOR BEFORE THE HORSE IS STOLEN.
DO IT NOW.
JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.
Mention American Florist.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Index to Advertisers.

Abel C C & Co.....130
Adv. Rates, etc 130
American Boiler Co ..140
American Road Mach Co.....137
Andorra Nurseries.....130
Anthony J T.....128
Art Floral Co.....130
Baller F A 130
Barnard W W & Co....133
Bay State Hdw Co.....137
Bayersdorfer H & Co ..136
Berger H H & Co.....133
Bock Wm A.....128
Bonsall Jos E & Son ...131
Boston Letter Co ...136
Brauer & Richter.... 128
Brown & Canfield.. ...129
Burns & Raynor.....131
Burrow J G.....135
Burton John.....129
Carman R W.....135
Carmody J D.....137
Chandlee Geo H 139
Connell Benj.....128
Corbrey T J 131
Creighton Geo.....128
Deamud J B & Co.....130
De Cock Jules.....128
De Lamater Iron Wks.137
De Smet Louis.....127
Dillon J L.....129
Dorner Fred & Son.....128
Dreer H A 127
Eger Wm C.....128
Elliott W H.....130
Ellison Wm.....131
Ely Z De Forest & Co..134
Engle W J.....128
Felheim Lyman.....137
Forstermann L 130
Gardening Co The.....135
Gonzalez & Co.....133
Goodyear Rubber Store.....139
Griffith N S.....128
Guillaume Louis A....128
Gurney Heater Co.....138
Hall Ass'n.....139
Hancock Geo 128
Hart James.....131
Hart Michael A.....131
Hart & Crouse.....139
Hartford H E.....131
Heinl Jos.....128
Henton & Hubbell.....133
Herr Albert M.....128
Hews A H & Co 138
Hilfinger Bros.....138
Hill E G & Co.....130
Hippard E 137
Hitchings & Co.....140
Hooker H M Co 139
Horan Edw C. 131
Hulsebosch Bros 133
Hunt E H.....131
Hunt M A.....129 135
Hunter Frank D.....131
Jennings E B.....129
Joosten C H.....133
Kaufmann Ernst & Co.136
Kemble Floral Co ..130
Kennicott Bros.....131
Koch Ludwig.....135
Koffman E.....130
Krick W C.....136
Kroeschell Bros 138
Kuehn C A.....131
La Roche & Stahl.....130
Lockland Lumber Co...138
Lombard R T 128
Long Dan'l B.....131
Lonsdale Edwin.....135
Lord & Burnham Co...140
McCarthy N F & Co....131
McCrea & Cole.....135
McFarland J H.....137
McFarland J H Co.....135
Madsen H.....130
Manz J & Co.....136
Marschuetz & Co.....136
Mandel Jacob 130
Meyer John C & Co ..139
Michel Plant & Bulb Co 133
Millang Bros.....131
Miller Geo W.....129
Moffatt G J.....133
Moninger Jno C 140
Nanz & Neuner.....129
Niles Centre Floral Co.131
Ouwerkerk P.....135
Parmenter Mfg Co.....138
Peck & Sutherland.....131
Pennock C J.....128
Pennock F M. 129
Pennock Sam'l S.....130
Pierson A N.....129
Pierson F R Co.....133
Pittsburg Clay Mfg Co.138
Prince A G & Co 131
Probst Bros Floral Co..128
Pye & Mueller.....137
Quaker City Mach Co..137
Randall A L 131
Reck John 135
Reed Glass Co.....139
Reed & Keller.....136
Rennison J C 135
Roberts J H.....139
Roehrs Theo.....134
Rolker A & Sons....133 136
Rupp John F.....128
Russell S J.....136
Sander & Co 130
Savacool A K.....139
Schiller Ludwig 135
Scollay John A. 139
Sebire P & Sons 130
Shelmire W R.....128
Sheridan W F.....131
Sherwood Hall Nur Co.130
Siebrecht & Wadley....130
Siptle, Dopffel & Co....138
Situations wants.....127
Smith George.....128
Smith Nathan & Son...128
Soltau Chr.....128
Spooner Wm H. ...129
Stahl Adolph 128
Starr Chas T.....128
Stewart W J Sec'y.....140
Stott Garden Imp Co...135
Struck J N & Bro 137
Sunderbruch H L.....131
Tracht J A & Son 128
Tricker Wm.....134
Van Horne Griffen & Co 130
Vaughan J C.. 133
Vick & Hill.....129
Waterbury Rubber Co 139
Watson G C.....133
Weathered's Sons T W.140
Weeber & Don.....135
Welch Bros.....131
Whildin Pot Co ...138
Whitehead Geo B.... ..129
Wight W P.....140
Wisconsin Flower Ex..133
Witterstaetter R.....135
Wolf E E.....137
Wolff L Mfg Co.....139
Wood Bros.....129
Young C & Sons Co....129
Young John.....131
Zirnglebel D.....128

ATLANTA, GA.—C. A. Dahl, the florist, is dead.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

CYPRESS GREENHOUSE MATERIAL

CLEAR

SASH

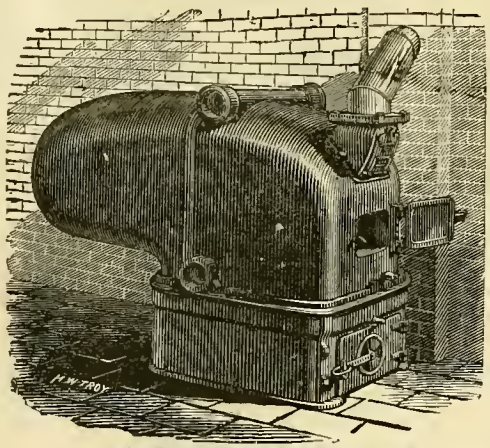
BARS

HOT BED SASH VENTILATING

JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

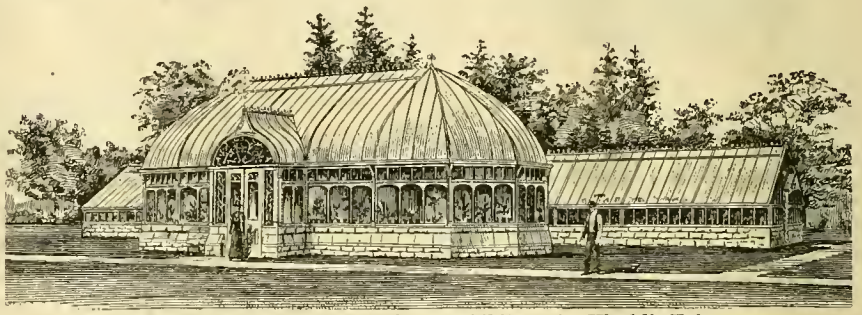
Goodel HH 15 Dec 93
Mass Agri Col

GREENHOUSE HEATING AND VENTILATING
Horticultural Architecture and Building.



HITCHINGS & CO.
Established 1844.
233 Mercer St., New York.
FIVE PATTERNS OF BOILERS.
NINETEEN SIZES.
Perfect Sash Raising Apparatus.
Rosehouses, Greenhouses, Etc., of Iron Frame Construction, Erected complete, or the Structural Iron Work shipped ready for erection.
Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Top.
SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.

LORD & BURNHAM CO.
Horticultural Architects and Builders,
STEAM AND HOT WATER HEATING ENGINEERS.
☞ Plans and estimates furnished on application.



Front view of a portion of our exhibit at the World's Fair.
. . . SEND FOUR CENTS POSTAGE FOR ILLUSTRATED CATALOGUE. . . .
LORD & BURNHAM CO., Irvington-on-Hudson, N. Y.

STEAM · AND · HOT · WATER · HEATERS
FOR
GREENHOUSE HEATING
156
DIFFERENT SIZES.
American Boiler Company.
BOSTON, 195 Ft. Hill Square. NEW YORK, 94 Center St. CHICAGO, 34-36 Dearborn St. DENVER, Mining Exchange Bldg. SAN FRANCISCO. 80 Crocker Bldg.

THOS. W. WEATHERED'S SONS,
INCORPORATED.
Horticultural Architects and Hot Water Engineers
Send for Catalogue, enclosing 4 cents in stamps.
No. 244 Canal St., NEW YORK CITY.

S. A. F. REPORTS.
GOOD READING CHEAP.
I have on hand a number of surplus copies of the reports of proceedings at the New York, Buffalo and Boston Conventions of the Society of American Florists. All parties wishing to procure copies of either or all of these can have them by applying and enclosing 25 cents in stamps for each, as long as they last.
Address WM. J. STEWART, Sec'y, 67 Bromfield Street, BOSTON, MASS.

THE PERFECT DRAINAGE
BENCH TILE
For circulars, etc., address
W. P. Wight, Upland Green Houses,
Send your business card. MADISON, N. J.

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. IX. CHICAGO AND NEW YORK, SEPTEMBER 21, 1893. No. 277

THE AMERICAN FLORIST

Copyright 1893, by American Florist Company. Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.
322 Dearborn Street, Chicago.

Subscription, $1.00 a year. To Europe, $2.00.

Address all communications to

AMERICAN FLORIST COMPANY,
P. O. Drawer 164, CHICAGO.

Eastern Office: 67 Bromfield St., Boston.

SOCIETY OF AMERICAN FLORISTS.

WM. R. SMITH Washington, D. C., president; PROF. WM. TRELEASE, St. Louis Mo., vice-president; WM. J. STEWART, 67 Bromfield St Boston, Mass. secretary; M. A. HUNT, Terre Haute, Ind., treasurer.

The new officers, to be installed Jan. 1, 1894, are: J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; secretary and treasurer the same as for 1893. The next annual meeting will be held at Atlantic City, N. J., August, 1894.

CONTENTS.

Decorative plants for the western trade . . . 141
Carnations—Seasonable hints 142
—Carnation notes. 142
—Crimson clover to plow under 142
Veranda boxes and vases (illus) 143
Verbena venosa 143
Roses—Seasonable hints 144
Obituary—Charles Verdier 144
The advancement of floriculture 144
Hanging baskets (illus) 144
Miscellaneous seasonable hints 144
Fire insurance 146
Vase of tuberous begonias (illus) 146
Philadelphia 146
Boston 146
New York 147
Chicago 147
St. Louis 148
Toronto 148
Baltimore 148
Pittsfield, Mass. 148
Display of ferns at World's Fair (illus) 149
A visit to Chicago 149
Foreign notes 150
Catalogues received 152
The seed trade 154
Bouvardias 154
How can we elevate our profession? 156
Springfield, Mass. 158
Marblehead, Mass. 160

THE National Chrysanthemum Society of England held its first show September 5, which was of course devoted to the earliest bloomers. First-class certificates were awarded to two new sorts, Mr. E. Rowbottom, a yellow Japanese, very pure in color, and Samuel Barlow, medium sized Japanese, deep salmon pink, with center shading to yellow. Among the varieties shown Mme. Desgrange in its several forms was extensively represented. Etoile de Lyon, La Vierge, Puritan, and Mrs. Irving Clarke received commendation. September 5 would give little material for a chrysanthemum show here.

THE AMERICAN FLORIST and *Gardening* together to one address for $1.75. Send orders to the American Florist Co.

Decorative Plants for the Western Trade.

Among Chicago florists who handle decorative plants of a high order Mr. J. T. Anthony, president-elect of the S. A. F., may justly be regarded as a pioneer. He is really the only Chicago grower who handles orchids for cut flower purposes, and his ferns, palms and other foliage plants are in advance of the usual line. His flowers, roses and all general material for cutting are to be grown at his new place at Bowmanville. A recent visit to his Prairie avenue establishment showed a batch of unusually fine rubbers.

"This foliage is unusually good; how have you carried them through the summer?" was asked of Mr. Boehm, the foreman.

"They have only recently been brought inside, since the cold nights set in. We kept them outside all summer; it is fine for rubbers."

"They are very nicely branched; what do you do to get that habit?"

"Nothing but take cuttings from the tip whenever we are ready for them. Most of these nice plants have given us a good crop of cuttings this season, and they are all breaking very freely."

"You have but few of the variegated rubber; don't you like it?"

"It is a beautiful thing, and just as easy to propagate as the ordinary type, but the leaves soon turn brown or spotted and lose their good looks. Even a good plant will often have several bad leaves at the bottom, and this ruins the appearance of the plant.

"You have a good lot of Pandanus Veitchii here, but I don't notice any utilis."

"No, we find Veitchii more salable; it is much handsomer to begin with and it stands better; it is one of the very best house plants we sell."

"Your plants are very well colored; how did you treat them during the summer?"

"They were in a house covered with oiled muslin instead of glass, one of the houses stripped by the hail storm last May. They have only been glazed within a few weeks, and the palms and pandanus did very well under the cloth."

"Then you don't summer your palms outside as well as the rubbers?"

"No, it wouldn't be safe here; the only palms we can trust outside are a few of the hardiest, phœnix, chamærops, etc. But the palms did admirably under the muslin."

"You have a fine stock of Latania borbonica; do you still find it a standard palm? In some of the eastern cities we are told it is hardly as salable as the kentias."

"Yes, it is always in demand; shapely plants with five to seven leaves are always useful stock. The kentia is perhaps better in some respects; it is more graceful as a small plant and stands better in a dark place, but it does not seem ahead of the latania in public favor. We find plenty of use for the larger kentias for decorative purposes."

Several of the palm houses contained a good lot of Adiantum cuneatum in fine order; certainly the most useful of all ferns for cutting. They were recently potted in a good loam with a fair admixture of charcoal.

"You don't seem to have your adiantum for cutting planted out on the benches."

"No, it takes up too much room, and is far easier handled in pots. You see we have a good deal of cuneatum for cutting, as well as decorative purposes, but we use less of it in fern pans than we do the harder varieties."

"You seem to have more ferns in 2 and 3-inch pots than any larger size."

"Yes, by the time they get into 4-inch they are too large for our purposes. We shall use up a large quantity of this small stock during the next two months in fern pans and boxes."

"Here is Pteris Victoriæ; how do you like it. We have heard some remark that it is not a very good trade fern, being very brittle and showing little of its character when small."

"It may not suit the wholesaler, but we find it excellent for the retail trade. The color is very distinct and shows well even on these little specimens, as you see. By the time it makes fertile fronds it is of course too big for our usual purpose, but the color on the young fronds is quite distinct, and handsomer than P. cretica albo-lineata. Of other pterises we use a quantity of tremula and cretica, as you see; both are very useful."

"Here is a distinct and robust little fern, with the shining dark green pinnæ and black stems."

"That is a very useful thing; Doryopteris palmata, or Pteris palmata, as it is now called. A large specimen of it is very handsome, and when small it is as useful as the others of its family for fern pans."

"Neprolepis exaltata is evidently a useful thing, judging from the amount you grow."

"Yes, it would be hard to fill its place. In the summer it is used in veranda boxes and vases, and in the winter it is a salable house plant. It is so easily propagated too from the rhizomes."

All the ferns in Mr. Anthony's place are just these characteristic useful sorts found salable in a retail trade, and the pteris appears to hold first place. Adiantums are almost confined to cuneatum, this being the only variety in quantity. Onychium japonicum is of course present; it is one of the ever-useful sorts and is so graceful when of small size. Most of the ferns are grown on side benches in the palm houses, where they are near the light, and find a congenial temperature. Selaginellas are hardly seen at all; some half dozen very pretty plants of a slender

arborescent variety, name unknown, were noted, but as Mr. Boehm remarked, they take so long to grow to an attractive size that they are not suited to commercial use. Still, for a Wardian case there are few prettier plants than some of the selaginellas. Some pretty little cocos, six to ten inches high, were noted; these are used entirely in the fern pans, they being of little use when larger.

A group of beautifully variegated plants, ivory white and rich green, was next approached; it was Phrynium variegatum.

"That is a very beautiful thing, and uncommon too; I judge it is useful in decorating."

"It is," responded Mr. Boehm. "It is a handsome thing, and very easy to propagate, like a maranta; in fact some people erroneously insist it is a maranta, in spite of the difference in structure. It is a very useful thing."

"You evidently find no trouble in propagating marantas."

"No, it is no trouble to make them grow. We use a lot of M. Kerchoveana(?), this variety with satiny green leaves marked with black; it runs along very rapidly and is a very handy thing, being so close and dwarf in habit, either for fern pans or for a close border in decorations."

M. Bachemiana, or more properly Calathea Bachemiana, is another useful sort, and so is Calathea Makoyana, deep green, blotched with creamy yellow and white, and C. Massangeana, olive, marked with silver and velvety maroon. A number of the plants we used to know as marantas are now classed as calatheas.

A few plants of Araucaria excelsa stood in another house, but they are not yet appreciated in Chicago. On learning the price would-be purchasers are apt to remark that they are nothing but pine trees, and sales are few and far between.

Mr. Anthony has a nice batch of Chinese primroses coming on; he finds this a very salable plant when well grown and in good bloom, and the quantity used is increasing. Cinerarias too were potted up in the same house as the primulas, but they are not so much called for in this establishment. Chrysanthemums are looking well, a fact discovered by a few hungry grasshoppers, who have lost their bearings and wandered down Prairie avenue. The flowering stuff is, however, at Bowmanville.

Of orchids there was nothing in flower at this time; the stock consists of the well known and free flowering varieties of cattleyas, lælias, oncidiums, odontoglossums, cypripediums, cœlogynes, etc. Mr. Anthony says the taste for orchid flowers is certainly growing in the Chicago market; the most fastidious buyers demand them, and the demand will become greater as people learn the supply can be depended upon.



Seasonable Hints.

The time has come round again for housing our field grown plants. A few growers have already filled their houses, others are at work doing so, but many prefer to leave the plants in the field till the end of September or middle of October. Our first articles of this series went into particulars on this point. We would simply refer those desiring information to them.

This brings to mind what seems to be a generally accepted opinion, viz., that all plants (carnations in particular) are necessarily subjected to unnatural and uncongenial conditions when housed under glass. If we allow this idea to prevail we are very apt to ascribe our failures to it, whereas they are more likely to result from our own carelessness and incompetence. Perhaps in a general sense the assertion is true, for of course plants do not grow under glass in a state of nature. In the same sense it is not natural that men should live in fine houses surrounded by the luxuries of civilization. The natural man was about as wild as the natural carnation. Civilized man is eminently suited to his environment, and supplants the native races. The improved and highly bred carnation of to-day is as well suited to its surroundings. So much so that our present stock would soon degenerate if allowed to have their own way in a state of nature. A properly constructed greenhouse establishment is the most suitable and natural place in the world for growing carnations as we know them to day. History does not record when the first pink was cultivated. They are said to grow wild in some parts of the world; but it is very probable in such cases they have escaped from cultivation with the inevitable degeneration. The carnation may be classed with the cereals and many fruits which have been the product of high cultivation from time which antedates history. They are the result of man's skill, and one of the conditions for their successful production, in this latitude at least, is the glass house. There need be no artificial condition about it. Properly cared for—tenderly, lovingly as we would our own children—they will reward us with a bountiful crop of flowers. The unnatural part of greenhouse culture is neglect, inexperience, ignorance, carelessness, laziness. Let us avoid these stumbling blocks and perseverance will direct us to success.

Avondale, Pa. W. R. SHELMIRE.

Carnation Notes.

For many years Hinze's White has been the favorite white carnation with Messrs. E. Wienhoeber & Co., Chicago, though of late years they have also grown Silver Spray largely. Now, after keeping a careful record of returns from each variety for several years, Mr. Buettner finds that Silver Spray is considerably the most profitable, and for the coming winter his stock is nearly all of the Silver Spray, retaining only one bench of the Hinze's. The only fault he has to find with Silver Spray is that the first crop of flowers are rather small, with numerous buds. But he cuts these with long stems, taking buds and all, and after that he gets good sized flowers on nice clean stems.

He is going to give Lizzie McGowan a further trial this season, but is not favorably impressed with it thus far. Last season he got few good flowers, nearly all being burst or otherwise imperfect.

Grace Wilder has always done exceedingly well with him. He relates a curious experience with this variety. One year he purchased two lots of rooted cuttings of this sort, one from the originator and the other from another grower. The lot from the originator all bore the fine pink blooms that give Wilder its reputation, while those from the other lot were streaky and washy. Both lots were on the same bench and received identical treatment. The difference in the flowers was so marked that it could be seen at a glance where one lot of plants ended and the other began. He feels certain that both lots were Wilder and believes that the good lot of plants were from cuttings taken from vigorous plants, while the others had been rooted from weak wood from plants that had been crowded to produce lots of cuttings without regard to quality. He propagated his following season's stock from the plants bearing the good flowers, throwing the others away, and has had first-class stock ever since. He never has any streaky or washy flowers. He is cutting good flowers now from the old benches that have borne steadily all last winter and this summer; also from similar benches of Silver Spray and Portia. He used to grow stock specially for summer blooming, but now finds this unnecessary.

The terrible drouth has militated seriously against the growth of carnations in the field, and being unable to properly water all the plants outside, he has about half of them already benched in the houses.

Crimson Clover to Plow Under.

ED. AM. FLORIST:—In your issue of September 7 the report of the meeting of the Chester County Carnation Society will, I am afraid, be rather misleading in regard to the use of the Italian or crimson clover (Trifolium incarnatum) as a green crop to turn under. As printed, the report says that the seed sown early in October will make a crop ready to turn under in November. Instead of the latter month I should have said the first of May.

The value of this crop to the carnation grower is that the seed can be sown as soon as the carnations are out of the ground, say by the 15th to the 20th of October, and if it can get a fairly good start will continue to grow all winter whenever the ground is not frozen. Early in the spring it starts to grow very luxuriantly, and by the time the ground needs to be plowed for setting out the young plants in the spring there will be a heavy mass of foliage to turn under, as with us this clover is just coming into full bloom, furnishing abundant vegetable matter for use in connection with commercial fertilizers, making a great saving where stable manure is scarce or expensive, both in cash and in labor.

It is practically a stolen crop, growing when the ground would otherwise be idle. Unless overgrown with that pest of old carnation ground, the chickweed, it occupies the ground to the exclusion of weeds, and being plowed down early casts no seed of its own to become a troublesome weed later in the season.

When the carnations are removed the ground should be well worked up with a cultivator, the seed broadcasted and well rolled in, and it will need no further attention until plowed under in the spring. To secure a thick stand when sown as late as the middle of October at least 20 pounds of seed per acre should be sown. E. D. DARLINGTON.

Fordhook Farm, Doylestown, Pa.

WHEN SENDING us newspapers containing items you wish us to note please do not fail to distinctly mark the item so it can be easily found, as we can not spare the time to hunt through the mass of papers sent us for unmarked items.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.



VASES AND VERANDA BOXES.

Veranda Boxes and Vases.

The illustration is from a photograph of a typical Delaware avenue residence. Many such are to be seen on that beautiful avenue of Buffalo. It is illustrated to show where the veranda boxes are suitable. Were they to run the entire front of the house the writer thinks it would be overdone. The veranda box seen is 36 feet long. There are two very handsome tubs of Hydrangea Otaksa and several iron vases of mixed plants scattered round in suitable places. There are no iron or wooden fences to keep the public "off the grass." The pedestrians of all classes appreciate the beauty of such places, and *do* keep off the grass.

Buffalo, N. Y. WM. SCOTT.

Verbena Venosa and Colors Harmonious With It.

This dainty verbena has a beautiful purple hue which is a charming companion to any pale yellow. I mention two distinct colors, purple and pale yellow, and these it must be confessed are indefinite so far as their names are concerned until we are absolutely sure of what we mean.

I mean by purple the color in the prism which is half way between blue and red. The Verbena venosa is that color, but a bit paler than it ought to be. Under my magnifying glass I find that the tiny blossom is crimson-purple in the depths of its cup, and quite pure purple at the edge of the petal. The effect of the flowers out in the sunshine is still pure purple; indoors the color loses little of its exactness but considerable of its brilliancy. I mean by pale yellow a reduction (by white) of the prismatic yellow, and that is best represented by the palest yellow we can find in eschscholtzias, wild mustard and portulacca, not by the yellow of the Pearl nasturtium.

I can see at once the delicate yellowish tinge of the Madame Salleroi geranium is a harmonious color with the purple of the Verbena venosa; and the Pearl nasturtium with its pale straw yellow inclined toward the buff tone is correspondingly harmonious. But I also notice that the purer and paler the yellow is, which is placed beside the verbena, the better the color harmony.

I have a calendula in my garden which is nearly white with a sunflower-yellow center; this is the sweetest harmony of two yellows I know of, and it also produces a charming harmony with the Verbena venosa. My calendula must not be confounded with the variety called the Proust, because the color in the latter is not the color I am seeking to make plain to our eyes. I am talking about a yellow purer and paler than that we find in the Pearl nasturtium, and the Proust's yellow is not the one.

Abstractly speaking, yellow and purple are complementary colors; that is to say, one fulfills the requirements of the other. But a strong purple and a violent yellow are not the most agreeable companions for each other. I think, therefore, that the pure yellow marigold is not quite companionable to the purple verbena; whereas the light yellow gladiolus is. Pluck a bit of deep colored heliotrope and place it beside a pale yellow gladiolus and the fact is demonstrated at once. The proper course to pursue with yellow and purple is to make one light if the other is rich in hue, and vice versa.

I have nothing to say about massing the Verbena venosa in a definite shape of color on either a lawn or in the garden beds. A bed of this beautiful verbena confined to a figure of color which is more or less qualified by an adjacent harmonious or inharmonious color is a subject on which an artist would best not express an opinion. I believe in building up and not tearing down. My impression is that there are numberless combinations of flowers which are more satisfactory than one would suppose if they are put on trial. Any coleus with red on its leaf is no fit companion for purple flowers. Magenta pink is a near relative of purple, and so is purple-blue. I must express an entire disinclination to like any of the principles now practiced upon flower beds. When I see a star or circle of red coleus banded by six inches depth of dusty millers I have nothing to say. I would have just as little to say if the red coleus was replaced by the purple verbena, and even a band of yellow flowers substituted for the silver gray of the dusty miller. What I do believe in is artistic freedom, and that is not consistent with colored

stars and circles made of flowers. Why is it not better to plant the purple verbena near yellow flowers, regardless of shaped beds where colors must define figures? The fact is, we are not content nowadays to do *simple* things; we are not content with planting white and pink silene between purple verbenas and heliotropes. There are gray lichen-covered rocks, too, which are particularly adapted in color tone to offset dusty millers and ruddy coleus; yet we clear out all such rubbish as rocks and stones from our gardens, work hard to gain a broad green spreading lawn, and then deliberately spot it over with flower beds of set geometrical shapes.

The Verbena venosa's purple beauty I am confident is not best seen this way. I myself would be much relieved to see a few tall yellow gladioli springing upward from a monotonous mass of purple flowers. Then, too, if there was so much purple that the color was conspicuous I would prefer to see it broken up into groups, each one of which should be varied with some play of color besides the purple. Monotony in the flower garden should not be tolerated.

F. SCHUYLER MATHEWS.



Seasonable Hints.

Now is the time to get everything in order for the winter. Planting should be over and plants staked and tied. If you have not done so yet all the houses should be thoroughly cleaned under the benches and all rubbish taken out so as to leave no harbor for insects. Walks should be scraped and surfaced with sand or fine ashes, so as to make a good clean walk when wet. All roofs gone over and all broken glass replaced, all loose squares taken out and reset and the roof made tight for winter. If you have any cracked or leaky pipes now is the time to repair them; do not leave them until you want to start your fires and then have to wait a week or so until the boiler men get ready to come, for they are always rushed with work at this season. Your manure for mulching should be under cover in the soil shed and turned over at intervals to get it thoroughly decomposed and friable. Get your soil for potting your young stock mixed and under cover in the shed before it gets soaked with the fall rains. And it is the season to get your soil for next season's planting; make up the soil heap now so as to give the sod a chance to decompose during the winter. All the young plants in the houses should be in active growth now and require constant attention. As the nights are cool now the houses require little if any air at night and your syringing must be done early in the day so as to have the houses and foliage free from too much moisture at night; if too wet the houses get a damp cold atmosphere that is sure to breed mildew. The air must be given sparingly until the sun gets well up in the morning, and must be reduced early in the afternoon so as to avoid too much draft in the houses. Mildew must be fought as soon as a speck appears; it is a good plan to examine every house daily and give sulphur wherever a spot is seen, and by this means it can be kept from spreading. If green fly appears fumigate; you can do it better now than when a crop is on, and besides by keeping it down now you can almost do away with it altogether in winter by (after the fires are started) putting tobacco stems on the hot water pipes and on the walks. All the plants should be constantly gone over and kept tied up and all bad leaves picked off, all the weak buds should be cut off and the plants encouraged to make as much growth as possible. It is a poor policy to let the young plants flower too soon; better to sacrifice flowers now and try to get as much growth as possible to enable the plants to stand the winter's work. Be sure to keep the surface of the beds clean and stirred, or rubbed over with the hand at least once every ten days, or if your soil is inclined to get green or mossy on the surface, oftener. In fact at this season the rose wants all the attention possible, for the time of preparation for winter is nearly over, and if not well prepared to meet it half the season is lost before you can cut a good paying crop.

Madison, N. J. JAS. S. TAPLIN.

OBITUARY.

We announce with regret the death of M. Charles Verdier, of Paris, the well known rosarian. M. Verdier introduced a considerable list of roses, and was greatly esteemed both in horticultural circles and in private life.

The Advancement of Floriculture.

Referring to the various essays on means of advancing the interests of floriculture read before the S. A. F. at St. Louis, Mr. James MacPherson writes us that to make it possible for men of ideas to put their projects into execution it will be necessary for florists to secure positions on the public park and garden boards and see to it that only capable men are employed as superintendents, and when a capable man is in charge that he be not hampered or controlled by a lot of cheap politicians.

This is an excellent suggestion, and opens a new avenue of usefulness to the various Florists' Clubs. If the parks and gardens of your city are suffering through political methods let every member of the club join hands, regardless of political affiliation, and strike together for reform. Individuals can do but little in most cases, but an organized body can do much, and the membership of the various clubs is now so large that each one represents a sufficient number of votes to win a champion for their cause among the politicians looking for an issue by the espousal of which they may hoist themselves up another step of the political ladder. And get one of the leading daily papers to take the matter up. But be sure to give the editor the proper lines to work on and keep him supplied with material with which to flay the guilty officials.

Much may be done in this line by even one or two active men. We know of a recent case in which one man with but slight assistance set in motion a force that defeated a strong organized gang in one of our large cities who had decided that one of their number must succeed the thoroughly capable man then in charge of an important public park. It appeared that the gang had two of the five members of the board of managers solid and a pretty good grip on a third one, so good a grip that he had practically given his consent. The man we spoke of belonged to the same political party that the pirates in question had attached themselves to and he at once placed the facts before the editor of the leading daily organ of the party, with all the corroborative evidence he could collect. As a result the broad minded editor of this great paper wrote a letter to the weak commissioner giving him warning that if the superintendent was removed his paper would make a searching investigation of all alleged causes of such removal and would publish prominently the facts, whatever they might be, and regardless of their political complexion. The next day the superintendent was assured by this commissioner that he could count on him in any emergency. He had been completely converted by this presentation of the case. Politicians are hardened to criticism by papers of opposite political faith, but they are slow to court it from the organs of their own party.

Where the interests of floriculture are in danger from the "practical politician" of any party the trade organizations should meet it shoulder to shoulder, opposing their political power and that of their friends (which they will always find numerous and influential in such cases) against that brought to bear by the opposition, and if they do this with vigor and pertinacity they are pretty sure to win.

Hanging Baskets.

The hanging baskets illustrated are of wire lined with green moss and are 12 inches in diameter (across the top). The writer has found no other hanging baskets so satisfactory as these; the roots penetrate into the moss, and they can be given more water, with less care, than either a wooden or earthen ware basket. The baskets pictured were hanging from a veranda, but were removed from this position and suspended against a wall for photographing.

As it is impossible to distinguish each individual plant in the plate I give below a list of all the plants used in the four baskets.

Drooping plants: Abutilon vexillarium, money vine, lophospermum, senecio, variegated and green vinca, Lobelia gracilis, nasturtium, ivy geranium, single petunia, variegated glechoma.

Upright growing plants: Geraniums in variety (short jointed free flowering varieties are much the best for the purpose), coleus in variety, three varieties of achyranthes, antithericum (California soap plant), Mt. of Snow and bronze geraniums, fuchsias (when location is shady), and several begonias (including the rex type). Nothing is more effective than the latter if the baskets have partial shade.

WM. SCOTT.

Buffalo.

Miscellaneus Seasonable Hints.

There are several useful bedding plants that it is not necessary to put in cuttings of in the fall as you do many things, and among them is Santolina incana, the silvery white of which is indispensable where good carpet bedding is carried out. Lift a few good plants after the other things are killed by frost (satolina is almost hardy), put them into 4-inch pots and stand them in the coldest house. After New Year's cut off the tops of the shoots and they break out with hundreds of young tender growths which root very readily. I think from twenty old



HANGING BASKETS.

plants you can get easily 1000 young plants. When rooted I put five or six in a 2-inch pot and about April 1st shake them out and pot singly in a 2-inch pot and put them in a hotbed where they quickly make fine plants.

Don't propagate the white pyrethrum (feverfew) now. Lift a few old plants and later on put in the tips of the leading shoots and from the stems you will get plenty of side shoots for cuttings.

Petunias don't root as easily as most things and unless you have some varieties of extraordinary merit it does not pay to winter any of them over for eight months. Seeds of petunia can now be bought that you can depend on producing fine flowers both double and single, and much time and space can be saved.

Echeveria secunda glauca, and the sempervivums, will not be injured by a degree or two of frost, but don't let them stay out too long. Have some flats ready of convenient size and not more than two inches deep, press the soil firmly and dibble in the little plants almost touching; you don't want any soil with them and but an inch or so of root. If you want to increase your stock of this succulent then sort them before boxing into different sizes and have each size by itself. You don't want these plants to grow much during the winter, so a shelf in a very cool house is a good place for them and in the dark weather they will thrive without water.

As soon as your carnations are settled in the benches don't forget to plant a few dozen each along the side of the benches of double sweet alyssum and myosotis (forget me not); both are most useful and are clear profit, as I have failed to see where they did the slightest damage or robbed the carnations of anything.

Hollyhocks for next summer's flowers should now be in 3-inch pots and in a cold frame, which should be well protected in winter. If not you had better keep them in the coolest house you have.

Seedling pansies should be all planted in cold frames by this time. Press them firmly into the soil and give them a good soaking. They want no shade, for no plant undergoes a transplanting so finely as a pansy. Don't put the sash on till November or the approach of severe frost.

As soon as the Lilium longiflorum arrive get them into pots at once, as you have no time to spare. Easter is earlier this year (somewhere in March) than we shall see again in a hundred years, so you will want all the time you have to get the longiflorums into flower. Last year I put three bulbs in a 7-inch pot, first sorting them and putting three bulbs of the same size in each pot, then they grew about an equal height and flowered at the same time. These sold well and were preferred every time over a five or six foot Bermuda at double the price.

The strongest and best cyclamens that were sown early last winter will now be ready for their flowering pot, with me a 5-inch. Any light house will do for them now, but in winter, when they are flowering, they thrive best in a night temperature of 55°. Drain well with broken charcoal and a bit of green moss, and syringe them every fine day. Greenfly is a terrible enemy (or rather they like him) of the cyclamen, so put them in a house where you are not afraid of tobacco smoke.

That useful begonia, incarnata grandiflora, that was propagated in late spring will now want its last shift, into a 4, or if strong, 5-inch pot. Don't give them any more shade, don't use too rich a soil, and by all means don't over-water them or they will get a rust that will render them useless.

I have not noticed any carnation specialist writing about carnation plants for spring sales. Since the carnation has been such a popular plant the demand for carnation plants for a mixed border has greatly increased and in many cases the order is poorly filled. Our practice is, after the planting of the houses is done, to lift all that remain in the field. They will be sure to be the smallest plants and all the better for that. Pinch off all flowering and leading shoots and pot firmly into 4 or 5-inch pots and plunge in cold frame. Keep close and shaded for a week; after that give all the air you can; take the sashes off entirely on fine days. Very little attention is needed during the winter. If a long thaw and warm days come they can be given a watering sufficient to keep them from wilting. In April they are brought indoors, and by selling time are most satisfactory plants. I have found old Garfield good for this purpose, and so is Grace Wilder, and Puritan, from its habit, should be a fine white for the purpose. I protect the sides of the frames with straw manure and use double sash during the coldest months. The sooner they are lifted the better they will winter.

Buffalo, Sept. 18, '93. WM. SCOTT.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Fire Insurance.

I am well pleased to see the matter of greenhouse fire insurance agitated, and a committee appointed to receive reports of the insurance carried by the trade. It is the duty of every florist to respond promptly to the request of the committee, for if this business is handled rightly many dollars can be saved individually and in the aggregate many thousands. Until about ten years ago I paid 75 cents per $100 on buildings and stock equally divided. Then Buffalo was visited by a number of disastrous fires, mostly among large business houses. It was a regular epidemic. Whether the whole country suffered I have forgotten. Then our underwriters met and the result was insurance rates on business property went up with a jump. Greenhouse rates went from 75 cents to $1.80 per hundred. The florists here have kicked but in vain; I have repeatedly shown the agents what I considered the absolute safety of my place, but they say they can't help it; is the board's decree and the board don't see any difference. A greenhouse is a greenhouse. Fancy the difference. They will insure a rickety wooden dwelling, perforated with stove pipes through wooden partitions, coal oil lamps, etc., for 75 cents per hundred and the policy covers three years. If they would not insure the stock I would let insurance go, and I was once told by Mr. Burton of Chestnut Hill that their companies would not insure the stock. If it is the average of loss they grade their rates by then it has been a very profitable business in this county. In my recollection I can remember but one loss in twenty years and that was on a very small house not worth more than $200, and the loss on stock paid by the insurance company was $600, and that was no accident, it was a clear case of burning up for the insurance. The company or its agents was ashamed of the amount they had insured the stock for and instead of putting the little man in the state's prison they paid the money and let it drop. It seems to me we ought to insist on the greenhouse structures being examined and graded according to risk of fire there is about their construction. If there are any left of those old fashioned flue heated rabbit hutches which are called greenhouses, they should pay five times the premium of many of the modern finely built establishments where the steam boiler is in a stone or brick building entirely detached from the houses, or even a good hot water boiler in a brick lined stokehole and a good brick chimney. Then again should the man who has a fire hydrant within fifteen feet of his front door and a fire engine of the latest and best pattern within three hundred yards of his place and ten of them within two miles, pay as much as the man whose houses are in a small village and who in case of fire breaking out would have nothing but a village hand engine or nothing at all to depend on? It is a rich man who can afford to go without fire insurance, but the rates are in most places exorbitant and are felt as a heavy tax on the poor florist's income.

What's the matter with a mutual fire insurance company confined entirely to greenhouse structures the same as the hail insurance? It would be a bigger thing than the hail perhaps, but such fire insurance does exist locally, among farmers for instance, and I know of one farmer's company in western New York that is a great success. No fires, no assessments. It would work as well as hail insurance. Insure a man's place for only two-thirds of the actual value and there would be no incentive to have a fire. WM. SCOTT.

Buffalo.

Vase of Tuberous Begonias.

This is a bronze iron vase, 3 feet 6 inches high and 22 inches in diameter, filled with tuberous rooted begonias. It is in partial shade only, but the vase has been one of the most satisfactory and admired among thousands. It was filled about June 5 with small plants, none of which were in flower at the time. There are fifteen plants in the vase.

Buffalo. WM. SCOTT.

Philadelphia.

Griffen Bros., of Frankford, have been particularly successful with asters in pots, their stock being as a whole the finest we have ever seen. It goes without saying they have no trouble in disposing of them.

The cool evenings seem to remind the growers that the stock outside must soon be housed, and quite a number of houses intended to be only temporary, which however become so useful that they develop into permanent structures, are now going up.

George Anderson is erecting two to stay, for George doesn't believe in doing things in any half way manner. His roses looks very well, but he has not cut any as yet, preferring to pinch the buds off for a while longer.

Although Mr. Harris' place is larger than ever, he says that it will be difficult for him to find room to properly store his stock. In speaking of carnations Mr. Harris says while some varieties have not made much growth with him the past summer, Edna Craig is an exception, and has proved itself to be one of the strongest growers he has yet seen.

The first sale of plants in New York from the "Celebrated Philadelphia establishments," as the notice of sale puts it, will be a large one and the stock to be offered first-class in every respect; it being from Messrs. Harris, Craig, Lonsdale and Burton, is a sufficient quarantee as to quality.

Robert Craig has some of the finest Nephrolepis davalloides furcans, that have been seen for many a day. Some specimens measure five feet in diameter and three feet high; they are in 10-inch pans.

Z. De Forest Ely & Co. have added a new department to their business, that of florist's supplies. They say: "So many of our customers for bulbs and seeds have sent us orders in this line that we have decided to add it to our general business." We understand that David Cliffe of Germantown is to have charge of this department.

Business is getting better but is very fitful, one day being good and encouraging the dealer to lay in a stock, and the next being such as to make him wish he hadn't.

Prices of roses are about the same as last week, carnations are getting a shade better and good ones sell readily for $1 per hundred. Valley is scarce, not much being raised about here; 4 to 5 is asked for good sprays. Smilax is plenty at 15 to 18, asparagus 60 to 75, tuberoses and gladiolus 2.50 to 3 per hundred stalks. Kaiserin can now be had in moderate quantities. Burton, Lonsdale and Craig are all sending it in. It is beginning to come a fair size with a good stem, but the color is somewhat disappointing for a white rose, it so far resembling Mme. Hoste in this respect. We are assured however that it will come to its true color, a creamy white, as the season advances.

Stories of people being poisoned from eating what they supposed were good mushrooms, are appearing in the public press and have alarmed timid folks and set them talking about the danger of eating this delicious esculent. The truth of the matter is, and we have this on the authority of George M. Watson, (the M. stands for mushroom), that the people who were poisoned did not eat good mushrooms but a variety which grows in the pastures along with them, and which is poisonous, but in appearance resembles the true mushroom to such an extent that only experts can tell them apart. The safe plan is to handle such stock as comes from regularly prepared spawn and about which there need never be any doubt. Any florist can utilize the waste spaces under his benches in growing mushrooms and in some cases the returns will be found larger for the products that grow under the tables than for the crop next the glass. K.

Boston.

Cut flower trade is still very dull; roses of all common varieties are exceedingly plenty and prices lower than at any previous corresponding season. Boston is having it something after the New York style. Roses, ordinary varieties in quantity, can be purchased as low as $5 per thousand. The American Beauty, however, does not suffer here, as there are not enough grown to supply the market, and the greater part of those handled in this vicinity are shipped from New York.

Carnations continue very scarce, and if of good quality will bring as high as $2 a hundred without urging. The second crop of asters is beginning to appear, and there are indications that the price will be affected accordingly. These late asters, however, are inferior in quality to the main crop.

The exhibition at Horticultural Hall on Saturday, September 16, was exceedingly fine in many respects. Tuberous begonias and pansies are beginning to feel the influence of the fall weather, and are showing up in splendid form. The collection of hardy herbaceous flowers from Shady Hill Nurseries was one of the finest features of the exhibition. The weather seems to have been just right for this class of plants, judging by the flowers shown here recently, which have never been seen in greater brilliancy and general perfection of bloom. Specially beautiful were the hardy asters, among which some of the handsomest were versicolor, Lady Trevelyan, Amellus and Nova Angliæ. There was also a very full exhibition of hardy herbaceous flowers from N. T. Kidder. E. Tassinari showed annual phloxes in many new colors, also excellent zinnias. W. C. Winter's exhibition of show dahlias included in all about sixty named varieties, all perfect blooms. Mrs. Fisher carnation, as shown by R. T. Lombard was in excellent form. R. & J. Farquhar staged a large exhibition of cannas, several of which were promising seedlings. Fruit and vegetables were shown extensively, peaches, corn, tomatoes and cauliflower being shown in unusual perfection.

In the death of Mr. F. L. Ames, the Massachusetts Horticultural Society sustains a serious loss, for he has been an active member of the finance committee for several years, and it will be hard to fill his place. As to Mr. Ames' personal qualities so much has been said in the



BRONZE IRON VASE FILLED WITH TUBEROUS BEGONIAS.

daily papers already that anything further in these notes would be superfluous. It may be said, however, that the praise which has been bestowed upon him has not been overdrawn. The Gardeners' and Florists' Club of Boston, especially those of its members who were entrusted with financial responsibilities at the time of the convention of the Society of American Florists in Boston, have had reason to keep a warm place in their hearts for F. L. Ames, to whom they have always felt a debt of gratitude was due for the kindness which he showed them at that time. It is to be hoped that those who come into possession of that magnificent orchid collection will keep it intact, and will not permit the horticultural glory of North Easton to depart.

George Walter Dawson, son of Jackson Dawson, of the Arnold Arboretum, has been appointed assistant instructor in the art department of the University of Pennsylvania.

The extension of the City Hospital has necessitated the destruction of the city greenhouses. The sum of $100,000 has been appropriated for the purpose of securing a new location, and advertisements are out soliciting proposals for selling land to the city for nurseries and greenhouses. If a suitable location is obtained new greenhouses will be erected. In the meantime the large number of tropical plants at present in the public grounds will require shelter, and a temporary structure is being erected for that purpose. It has been suggested that $20,000 or $30,000 of the "Franklin Fund" be set apart for the benefit of Boston's shade trees. No better disposition of the money could be made.

Arrivals in town: Burt Eddy, of Chicago; W. A. Manda, Short Hills; C. B. Weathered, New York.

New York.

Cut flower trade is at a standstill. Roses are improving in quality and increasing in quantity. Mermets and Brides are particularly good. American Beauty and Meteor are in full supply. Carnations continue scarce. Single violets are beginning to come in and sell fairly well at 15 to 25. Garden stock is abundant; a severe frost is necessary.

Fleishman's new store on Broadway was opened and special invitations issued for Monday evening, the 18th inst. There were very handsome wall decorations and electric lighting. This adds another to the number of magnificent Broadway stores, and Mr. F. will doubtless get his share of trade.

Philadelphia growers had an auction sale of palms, rubbers, etc. Tuesday, the 19th inst. There was a large crowd of buyers and prices were fully up to the mark.

Mr. Geo. H. Linsdale, of 23rd street and Lexington avenue, mourns the loss of his mother, who died on the 9th inst.

Mr. C. Harrison Brown, bookkeeper for Thorley, was married on September 6 to Miss Augusta Pliss at St. Luke's Methodist Church.

Chicago.

At the last meeting of the Florist Club a committee was appointed to prepare suitable resolutions regarding the loss to the club by the death of Nicholas Singler, an old and much respected member of the club.

By the way, the club has adopted a mourning badge to be worn by members when attending the funeral of a deceased brother member of the club. These were first worn at the funeral of Mr. Singler.

The president was instructed to appoint at his leisure a committee to formulate a plan for the gathering together and compilation of statistics regarding the amount of cut flower producing plants housed for the coming season's work. An attempt will be made to secure reports from every large grower for the Chicago market as to the number of plants of each variety of rose, carnation, etc. be will grow the coming season, these to be compiled together and thus give an idea of what may be expected in the way of supply and in what direction there is apt to be a shortage or oversupply. It is believed that, while shortages and gluts are sure to occur, by securing exact knowledge of what the producers as a whole are doing they may be lessened to some extent and a saving of expense and labor be made thereby. An attempt will also be made to secure approximate figures as to the amount of stock of each sort disposed of and the amount of same produced, but not disposed of, during the season. A similar record for the following year will throw a strong light on the direction in which supply and demand are tending and thereby prevent considerable waste. It is an attempt to substitute an exact and accurate record for the guesswork which is now the growers' only reliance.

There was some talk of resuming the monthly suppers, but it was finally decided to wait till cooler weather, and a proposition that the first one be held during the chrysanthemum show met with universal favor.

The Cut Flower Exchange is doing exceedingly well. There has been only 50% called in on the stock and now the stockholders are assured that not only will there be no further assessments, but that dividends may soon be looked for.

Mr. Hubert Mass, financial secretary of the Florist Club, is soon to be a Benedict. We congratulate the fair one that has made this excellent capture.

W. A. Viberts, who recently returned from Minneapolis, is making arrangements to go into business on his own account in this city.

The market shows some improvement over last week, though trade is still rather quiet. Prices are firmer, though not advanced. Most flowers are improving in

quality. Some of the roses, Brides, Mermets and Meteors, have been showing a little mildew, the result of the late cold nights. La France, Perles and Beauties are generally good. Carnations are improving. Many growers have been lifting their plants, as the only way of saving them in consequence of the prolonged drouth. The dry spell, however, was broken at last by a heavy rain on Sunday night, which was very welcome, though it comes too late to save much of the outdoor stuff. This class of material is very scarce; tuberoses, late gladiolus, dahlias, cosmos, etc, are all scorched and burnt, and late asters have suffered severely from the grasshoppers. This scarcity of outdoor material is likely to be felt in the market.

T. J. Corbrey has given up his store on West Madison street, being succeeded there by Miss Corbrey. He will in future devote himself entirely to the commission business.

Among recent visitors to Chicago were Mr. and Mrs. Lewis Ulrich, Tiffin, Ohio; Geo. E. Fancourt, Wilkesbarre, Pa.; A. Schmitt, Glenville, Ohio; Richard Horstman, Berlin, Germany; J. Borland, A. Borland, Kalamazoo, Mich.; T. J. Ludwig, Columbus, Ohio; H. Ericksen, St. Paul, Minn.; Jno. Krumholz, Detroit, Mich.; Hans Hansen, A. E. Wohlert, Altoona, Pa.; U. J. Virgin, Wm. Rehm, New Orleans, La.; A. C. Brown, Springfield, Ill.; Harry Bunyard, Short Hills, N. J.; W. W. Coles, Kokomo, Ind.

St. Louis.

Trade during the past week continued fair. The receipts still continue to be heavier than at this time in former seasons. No change of any consequence is looked for until some time next month, when the cool weather begins to make itself felt. The weather has been very variable, we having had the warmest day of the season and also the coolest night so far.

The regular monthly meeting of the Florists' Club was held last Thursday and was the occasion for the officers elected for the ensuing year to take their positions. They were Alex Waldbart, president; Julius Koenig, vice-president; Emil Schray, secretary; and Fred C. Weber, treasurer. The board of trustees consists of Julius Benecke, C. A. Kuehn and F. Ostertag. As all of the above are hard working members the club may safely look forward to a prosperous year under their guidance.

A sort of hitch was met with in regard to having music at the chrysanthemum show. It appears that the musical union embracing most all the musicians in the city will not let any less than twenty performers appear in the "grand music hall" in which the flower show is held. The privilege of paying for the music under their estimate was not sufficiently appreciated by club members, so a committee was appointed to look for something not quite so expensive.

A communication from the teachers' committee was read regarding the offering of admission cards for prizes to the various classes in the public schools of the city. While they recognized the educational features of the show and the desirability of extending the love for flowers and plants among the children, they were forced to discourage the project owing to its being an opening whereby the schools could be used as a means of advertising.

A scheme has been perfected, however, with one of the leading papers whereby they present to every want advertiser in their issue of the Saturday and Sunday preceding the opening a card of admission. They will give the club the face value of the tickets used in advertising and in addition will make a special point of having the fact understood that chrysanthemum tickets will be given to advertisers in certain editions. This advertising will be incidental and will be fully, if not more, effective than that returned directly for the tickets. This scheme met with the approval of the members present and the sum of $200 was allowed to cover the cost of tickets to be used.

Notice was given of the offering of three special prizes by private parties. The amounts were two of $25 and one of $15. The classes in which they are to be offered have not yet been decided, but probably will be as soon as the exhibition committee meet. The probabilities are one will be for cut roses, another for cut carnations and the third for chrysanthemum plants. It was decided also to call for cut flowers in the seedling chrysanthemum class, owing to the difficulty of getting a good showing of plants; as it now stands it calls for three flowers of a kind.

Mr. Benton of Hanft & Benton, formerly of the firm of Benton & Lindenbrink, is to be married on the 25th of the present month, and has the congratulations and best wishes of a large circle of friends.

Notice has been issued by Stacius Kehrmann, receiver for the Elleard Floral Co., stating that he will hear and allow claims against the company on October 16, 17 and 18 respectively.

Joe Rolker is in town looking for people who are in the market for bulbs, and incidentally wants to know why bulbs are not "in it." R. F. T.

Toronto.

The Industrial Exhibition just about to close has been a most immense success this year both as regards attendance and the show itself. Several days this week the turnstiles registered 75,000. It is under the direction of a paid manager who has made it the most successful annual fair on the continent. There is a fair sized horticultural building, but it is rather dark and not altogether suitable. It is to be hoped that the directors will soon see their way to put up a building in accordance with the requirements for a first-class floral exhibition. So far the horses and cattle have been receiving all the attention, and they are now housed as comfortably as when they are at home.

The show of ferns in all sections is very good, the "50 in 3-inch pots 25 varieties" bringing out six competitors, all of whom had pretty collections; the competition in the larger sections was also very keen.

The flowering, stove and greenhouse plants made a fine show and pleased the ladies and the visitors generally who always want to see *flowers*.

The palms big and little were also good, though the biggest are away, and filled up a large space.

Stove and greenhouse foliage plants were perhaps smaller than usual though healthy and well grown; the largest plants were all in the tables 19x16 feet which I mentioned last week.

The exhibit of cut flowers and designs which were judged as usual by friend Scott of Buffalo was very large, but I was unable owing to the crowd to take notes of the individual exhibits. The gladioli seemed to be especially fine and large, some of Mr. Gilchrist's hybrids being particularly noticeablea mongst the rest.

Fruits and vegetables were simply immense and many of them will figure on the tables at the World's Fair in a short time.

There is a large bed of canna Mme. Crozy just outside the horticultural building, just a mass of bloom now, and one can imagine what the big beds at Chicago must be like. All the flower beds in the Exhibition Park are very fine this season, better than usual, which is saying a good deal.

Trade has been a little better during the exhibition, but it is merely a flash in the pan, the real thing won't begin until after a good hard frost spoils the out door flowers and plants.

Many professional friends from the country have been in town this week and altogether things have been lively enough to cheer the heart of a confirmed pessimist. E.

Baltimore.

Trade continues much the same. Good flowers find a ready market at fair prices. There is no appearance of a glut, and yet, except at very rare intervals, every one seems able to get what he wants with little trouble. The Hebrew New Year swept the market pretty clean of rose buds and made quite a stir in flowers generally, but only for a day, and then things relapsed to a customary quiescence.

The only matter that provoked very serious discussion at the club meeting was the report that a florist hitherto considered a very respectable member of the trade had adopted the practice of "crape pulling," i. e., soliciting orders for flowers and designs from houses wherever the crape at the door indicates a recent death. The members of the club present seemed unanimous in denouncing the practice, which tends to lower the standing of the trade in the eyes of the community, and would probably eventually do away with the custom of having flowers at funerals altogether.

Another question that attracted considerable interest and which was discussed by a number of the members was that of insuring greenhouses against loss by fire. In the discussion it was shown that the experience of the members was that fire insurance on greenhouses was hard to obtain, and the premiums charged were exorbitant in comparison with the charges for other buildings. After considerable debate, all of which went to show that very unjust and unreasonable discrimination was made by the insurance companies against greenhouses, the following resolution offered by Secretary McRoberts was adopted without a negative vote:

Resolved, that it is the sense of this club that a mutual fire insurance for greenhouses on the plan of the Hail Insurance is very desirable, and we would urge the Society of American Florists to take the matter into consideration and if possible elaborate such a scheme.

MACK.

Pittsfield, Mass.

The eighty-fourth annual fair of the Berkshire Agricultural Society was held at the Fair Grounds in this city on September 12, 13, 14, 15. The horticultural display was shown in a large tent in the same manner as last year, but for some reason the professional element kept aloof, and with the exception of a fine group of decorative plants and a large collection of vegetables from Col. Walter



DREER'S DISPLAY OF FERNS IN THE PENNSYLVANIA EXHIBIT AT THE WORLD'S FAIR.

Cutting, the president of the society, the displays of cut flowers, plants, etc. were contributed entirely by small amateurs.

Since the successful establishment of the annual chrysanthemum show under the auspices of the Gardeners and Florists' Club there is an inclination among the gardeners to confine their efforts to this one exhibition, and this fact, added to the lack of inducements in the way of suitable premiums or a practical schedule on the part of the Agricultural Society's management has resulted as above stated, namely, in the entire absence of the professional gardeners from any representation in the horticultural department of the fair.

In the cut flower display were to be seen the usual monstrosities in the way of floral designs constructed from the product of the home gardens. Asters and pansies, however, were shown in quality equal to the best professional growing. Some of the pansies were especially fine, considering the extremely dry weather which has prevailed in this section. On the second day the show was greatly improved by the arrival of a large collection of new and striking decorative plants from Pitcher & Manda. Diplomas of merit were awarded by the judges to the following plants shown in this collection: Araucaria excelsa compacta, Aphelandra Roezlii, Begonia Madame Lennett and Geonoma Pohliana.

There is plenty of material and plenty of ability in Berkshire county to put up an exhibition equal to the best in any part of the country. It only requires a little wise management to accomplish it, and the Berkshire Agricultural Society will make a serious mistake if it does not recognize this fact and act upon it.

A Visit to Chicago.

A TRUE STORY.

The Philadelphia delegation had started for St. Louis and I was left at home, feeling lonely and despondent. True, I might easily have gone with them, the reasons for staying at home, then so strong, now seemed mere excuses. Finally I could stand it no longer and packing my grip started for the train. It was too late for the convention, so Chicago was my objective point. Besides the Fair with its many attractions there were the parks full of elaborate mosaic beds and choice shrubbery, the greenhouses in the vicinity and last, but by no means least, I wished to visit Kokomo, Indiana, and see whether Mr. Coles had really found that rose soil for which he explored Chestnut Hill in vain.

The journey proved delightful and was over all too soon. A sudden impulse seized me. Before going to the Fair grounds I would see Mr. J. T. Anthony and his greenhouses. I did not then know of the honor which had been thrust on Mr. Anthony, but he had won my esteem while we were on a committee together at Washington last year, by his fearless denunciation of certain fancy boilers.

To Mr. Anthony's I went and found that great man seated in the doorway of one of his greenhouses. His greeting was cordial and in response to my inquiry how things were looking he waved me past him into a house about 150 feet long. I was startled. Never before have I seen such a beautiful houseful of plants. The center table was entirely filled with specimens of Salvia splendens in 8-inch pots, superbly grown. The leaves were as regular, lustrous and almost as large as those of a Spherogyne latifolia; the flower spikes were long and perfect, each floret of a brilliant scarlet that would shame even a Crozy canna; the whole were the perfection of decorative plants.

Mr. Anthony said he had produced this wonderful result by careful hybridizing, and volunteered to sell me three ounces of the seed at $9 per ounce! For an instant I hesitated, but remembering Mr. Harris and his lilies and Mr. Burton and his arecas I accepted his offer and left with visions of future success. As I

crossed the street with the precious package under my arm some one called to me, I awoke and found it was nearly time to begin another day's work.

The improved scarlet sage is still undiscovered. JOHN WELSH YOUNG.

Germantown, Phila.

Foreign Notes.

Nymphæa Laydekeri var. rosea is now in bloom in the water lily house at Kew Botanic Gardens, where it has received much praise. It will be remembered that this new nymphæa has been blooming in Mr. Tricker's display at the World's Fair, where it is in the open air.

M. Edouard Andre, the distinguished French landscape gardener, has recently received his appointment as Chevalier of the Order of Leopold. M. Andre, who is one of the editors of the *Revue Horticole*, is author of a standard work on landscape gardening and a professor in the National School of Horticulture at Versailles.

M. Latour-Marliac, to whom we are indebted for so many beautiful hybrid nymphæas, has recently sent out several new ones. Among these are N. Marliacea ignea, with deep purple red flowers, and N. M. rubra punctata, the color rosy red in innumerable tiny dots, over a lighter ground. Another is a soft salmon color with yellow center. These are likely to prove valuable acquisitions.

Cactus dahlias appear to be growing in popularity abroad; among fine sorts recently shown at a London show were Lady Penzance, rich yellow; Countess of Radnor, salmon, yellow center; Chancellor, crimson purple; Bertha Mawley, crimson and magenta, distinct; Countess of Gosford, reddish brown, center yellow.

A new China rose which made a good impression at the last show of the Royal Horticultural Society in London is Duke of York, a bright crimson, said to be very free and distinct. It seems likely to prove a useful variety.

The National Dahlia Society of England held its annual show at the Crystal Palace September 1 and 2. The exhibits were divided into show, fancy, cactus, pompon and single dahlias, and the exhibits were numerous. A number of fine seedlings were shown.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By man 27 years of age, as rose propagator or smilax grower. Address
K E K, 38 Vincent St., Dayton, O.

SITUATION WANTED—By young man, age 18 years, 3½ years experience, where he can have chance for improvement; commercial or private.
J. B. SUTHERLAND, Winchendon, Mass.

SITUATION WANTED—By a practical florist, 21 years experience, commercial or private; good references; married. Address
O. E. WOLFF, 2414 Euclid Ave., St. Louis, Mo.

SITUATION WANTED—By single German, 16 years' experience in commercial and gentlemen's places; good greenhouse man; sober and reliable. Good references. ARTHUR, 402 Fulton St., Union Hill, N. J.

SITUATION WANTED—By young lady; 5 years' experience as designer and decorator. Good references. Address, stating wages given,
MISS JENNIE E. CAMPBELL, 215 3½ St. S.,
St. Cloud, Minn.

SITUATION WANTED—By a young man with 9 years' experience in growing of cut flowers, roses, violets, smilax, and other greenhouse stock. Chicago preferred. Address CHRIST. ANDERSON,
225 Milwaukee Ave., Chicago.

SITUATION WANTED—By young man; 8 years experience in growing cut flowers and general greenhouse stock, first class designer and decorator; references given. Address C. B. K.,
care Fred Engel, Farina, Fayette Co., Ill.

SITUATION WANTED—By a young English speaking German, experience in roses, carnations and general culture, etc.; good recommend from last place, private or commercial in or near New York. Address
C. Ph. J., 10 North Bond St., Mt. Vernon, N. Y.

SITUATION WANTED—By a married man, German, as foreman or assistant on commercial place; thoroughly understands the cultivation of roses, carnations, violets, etc. Best of references. Address
W. FISCHER, 60 Sedgwick St., Bridgeport, Conn.

SITUATION WANTED—By a practical gardener and florist as foreman or head gardener in private or commercial place; single, 31 years of age, 15 years experience in Germany and this country; best of references. Address R H, care American Florist.

SITUATION WANTED—By competent florist with 11 years' experience in U. S. and Sweden, desires employment; will up in growing of roses, carnations, palms and general greenhouse stock; good designer; sober and steady; age 26; single. Address
G P, care American Florist.

SITUATION WANTED—By practical gardener and florist, who has devoted his lifetime to the business; single; middle age; of good habits; has experience in cut flower trade; successful rose grower; capable of taking charge of commercial place. If suitable the greatest satisfaction will be given. Satisfactory references. Address PRACTICAL FLORIST,
130 S. Jefferson St., Chicago.

WANTED—A first-class fireman; married; no children preferred.
ANCHORAGE ROSE CO., Anchorage, Ky.

WANTED TO BUY OR RENT—A few greenhouses near or in St. Louis. Address
O K, care American Florist, Chicago.

WANTED—Young man as assistant in greenhouse and outside. State experience and wages per month with board. Address
GEO. S. BELDING, Middletown, N. Y.

WANTED—To go to Florida, January to April, a competent florist, experienced in table and room decoration—woman preferred. Address
WARD G. FOSTER, P. O. Box 2832, New York.

WANTED—A man to take charge of retail store, good cut flower worker, decorator and plenty of push, state wages expected, reference required
W. E. MACKLIN, Melrose Gr'nhouses, Harrisburg, Pa.

WANTED—Immediately, first class grower and propagator of roses and cut flowers; must be experienced and active and able to take charge of small new commercial place in suburb of Toronto, Canada. Don't answer unless sober, reliable and industrious; one with artistic taste preferred. Address with references and wages required.
MILLER & SONS, Bracondale, Toronto, Canada.

WANTED—In a commercial establishment, a young single man, having taste and experience in arranging plants for church and house decorations for weddings, etc. Must be a willing worker in greenhouses. A man addicted to drink or profanity would not be permitted to remain a week. Give reference and state wages expected. A permanent place for a good man. Address PLANTSMAN, care Am. Florist.

FOR SALE OR LET—A valuable florist establishment near depot. Apply to
JACOB MENDEL, Nyack, N. Y.

FOR SALE—1,200 feet 4-inch pipe and fittings (Weathered make), as good as new.
MRS. GEO. WALDBAUER, Saginaw, Mich.

FOR SALE—1 No. 3 Weathered hot water boiler, $30; 1 No. 14 Hitchings corrugated fire box boiler, $40 cash; good order; f. o. b.
R. A. MCPHERON, Litchfield, Ill.

FOR SALE—Half steam pump and 4½ horse-power boiler. Both new and in good order; $85.00 on cars here if sold at once. Cost $250.00. Address
JAS. DAUGHERTY, Madison, N. J.

TO LET AT ONCE—My florist business at 20 per cent. for me. Location best, cars stop and connect to all parts every half hour. Come and see. Sickness.
LOUIS R. FOX, Gloversville, N. Y.

FOR SALE OR RENT—Two greenhouses hotbeds, ½ acre of land, southeastern exposure, 4-roomed dwelling, stable, etc.; centrally located, East End. Address J. B. FERGUSON, E. E. Pittsburg, Pa.

FOR SALE—Greenhouses and business. My only chance to live is to get into a different climate quickly, wherefore I will sacrifice for cash my business here, which has been profitable. It includes 5 greenhouses (covering about 8,000 square feet), all heated by steam, a good stock in ground and in houses, and an established cut flower store in the city. Price awfully low for cash. Address
W B, Box 655, Harrisburg, Pa.

WANTED.

1000 strong, healthy, New England grown **Marie Louise Violet plants** for winter blooming. State price.
L. W. GOODELL, Dwight, Mass.

FOR SALE OR RENT.

Rose and cut flower growing plant containing about 35,000 square feet of glass; houses heated by steam and hot water; all in good condition; well stocked with roses, ferns, palms, etc. Only 18 minutes ride from center of city. If you mean business, address
FLORIST, care Chas. E. Prather, Louisville, Ky.

MARIE LOUISE VIOLETS.

Out door clumps, healthy and nice, at $6.00 per hundred.
J. J. LAMPERT, XENIA, OHIO.

FIELD GROWN CARNATIONS.

Fine healthy plants for **Winter Bloom.**

W. R. SHELMIRE,
CHESTER CO., AVONDALE, PA.
Send for Circular.

IT WILL PAY YOU TO
BUY THE BEST
CARNATIONS
WE HAVE THEM.
Send for price list of field-grown carnations to
Geo. Hancock,
GRAND HAVEN, MICH.

FIELD GROWN CARNATIONS

New Varieties. Good, healthy plants.	
Mme. Diaz Albertini	$25.00 per 100
Mrs. E. Reynolds	20.00 "
Wm. Scott	20.00 "
Richmond	20 00 "
Spartan	15.00 "
Dr. Smart	15.00 "
Western Pride	15.00 "
Wabash	15 00 "
Blanche	15.00 "

FRED. DORNER & SON, La Fayette, Ind.

8,000 FIELD-GROWN
CARNATIONS
$6.00 per 100; $50.00 per 1000.
PROBST BROS. FLORAL CO.,
1017 Broadway, KANSAS CITY, MO.

FIELD-GROWN CARNATIONS.

Strong, healthy plants: Mrs. Fisher, Garfield, Portia, Hinze's White, White Dove, L. L. Lamborn, Buttercup, Lizzie McGowan, and newer sorts.
VIOLETS—Marie Louise and Swanley White.
ROSES—Best forcing sorts, from 2½ and 3-in. pots.
SMILAX—Strong plants, from 2-in. pots.
Heinl's Monthly Pelargoniums. Low cash prices on above stock on application. I will take in exchange Double White Primroses, Ferns, Rex Begonias, Dracænas, and young Palms.
JOSEPH HEINL, Jacksonville, Ill.

Carnation Plants.

1,500 extra fine plants of HINZE'S WHITE.
Address for sample and price,
JAMES E. ROBERTS,
MIDDLETOWN, CONN.

5000 FIELD-GROWN
CARNATIONS

Fine large clumps, have all the leading varieties, such as Portia, Fred. Dorner, Ferd. Mangold Silver Spray, Mrs. Fisher, Hinze's White, Tidal Wave, Delight, and 15 other fine varieties. Write soon and get choice. Will sell cheap for the next 30 days. First here first served. Address
MARION AND MAPLE HEIGHTS GREENHOUSES,
Marion, Ind.

CARNATIONS. CARNATIONS.
ROOTED CUTTINGS.

A FEW THOUSAND ONLY.	Per 100	Per 1000
TIDAL WAVE	$1.50	$12.50
DAYBREAK	2.00	17.50

GEO. SMITH, Manchester, Vt.

CARNATIONS AND VIOLETS.

Strong, healthy plants. The leading varieties of Carnations and Marie Louise Violets.
LOUIS A. GUILLAUME, East Onondaga, N. Y.

FIELD GROWN CARNATIONS.

Extra strong, large, healthy plants.

Silver Spray	$10.00 per 100
Daybreak	12.00 "
Garfield	7.00 "
Hinze's White	6.00 "
De Graw	5.00 "
Marie Louise Violets	5.00 "

Crabb & Hunter, 509 Madison Ave., Grand Rapids, Mich.

10,000 Carnations.

Field-grown, fine, healthy plants: Grace Wilder, Silver Spray, Garfield. Must be sold at any price.
JAS. JACKSON,
Gates & Garfield Aves., Jersey City, N. J.

BEAUTY

and **BRIDESMAID,** fine 3-inch now ready for planting, $8.00 per 100. Also **Perle, Meteor, Cusin, Wootton, Soupert, Hoste, Sunset, Mermet** and **Bride,** $6 per 100. A splendid stock for late planters.

M. A. HUNT, Terre Haute, Ind.

ROSES

BRIDES, MERMETS, BON SILENE, NIPHETOS, CUSINS, WATTEVILLES AND JACQUEMINOTS.

25,000 fine plants in 3-inch pots, at a bargain. Will quote you prices on application. IF WANTED SPEAK QUICK.

ROSES

A. N. PIERSON, CROMWELL, CONN.

Carnations, Violets, Pansies.

40,000 CARNATIONS.

Extra strong, healthy, field-grown plants. No rust.

	Per 100
6,000 Grace Wilder	$ 6 00
3,000 Portia, 500 Fred Creighton, 600 Mayflower, 5,000 Orange Blossom, 4,000 Tidal Wave, 15,000 Hinze's White, 400 Anna Webb, 300 Silver Spray, 300 Garfield, 300 White Wings	5 00

Other varieties in small quantities.

2,000 Marie Louise Violets, fine healthy stock, field-grown 7 00

The Jennings Strain of large-flowering and fancy Pansies, 65c. per 100 by mail; $5 per 1000 by express; 5000 $20. White and Yellow, separate colors, same price.

PANSY SEED. Finest mixed—pure white, yellow dark eye, each per trade pkt. 50c. and $1. Mixed per oz. $6. White or yellow $5 per oz.

Green's Farms is my nearest station on the line of New York, New Haven & Hartford R. R., 50 miles from New York, six minutes walk from depot.

Address **E. B. JENNINGS,**
Lock Box 254. SOUTHPORT, CONN.

40,000 CARNATIONS

Field-Grown. Free from Rust.

	Per 100
600 Grace Wilder	$ 6.00
5000 Portia	5.00
3000 Tidal Wave	5.00
5000 Orange Blossom	5.00
2000 Fred. Creighton	5.00
2000 Silver Spray	5.00
500 Lamborn	5.00
500 Anna Webb	5.00
500 Garfield	5.00
500 White Wings	5.00
500 Snow Bird	5.00
500 Lizzie McGowan	5.00
200 Mayflower	5.00
15,000 Hinze's White	5.00
MARIE LOUISE VIOLETS.	
3000 extra fine plants, at	7.00
Also extra fine strain of Pansies. Large flowers and fancy colors. Large flowering plants, per 1000, $8.00.	1.00
Cold frame size, by mail, per 100 $5.00;	.65

CASH WITH ORDER.

Address **GEO. B. WHITEHEAD,**
Lock Box 116. Greens Farms, Conn.

FIELD-GROWN CARNATIONS.

I offer the following varieties in quantity; all strong, healthy plants, ready Sept. 10th:

Mrs. Fisher, L. L. Lamborn, Puritan, Lizzie McGowan, White Dove, Angelus, Daybreak, Mrs. Ferd. Mangold, Thos. Cartledge, Emily Pierson, Wm. F. Dreer, Golden Gate, Peachblow Coronet, Cæsar. A number of other kinds in small lots. Correspondence solicited.

C. J. PENNOCK, The Pines, Kennett Square, Pa.

FIELD-GROWN

CARNATIONS.

30,000 FIRST-CLASS PLANTS.

Nellie Lewis, Puritan, Portia, McGowan, American Flag, Daybreak, Annie Wiegand, J. J. Harrison, Hinze's White, Tidal Wave and other varieties.

Send us a list of what you want, and get our *Special low* prices.

VICK & HILL, Rochester, N. Y.

Please mention the American Florist every time you write any of the advertisers on this page.

50,000 CARNATIONS,

Portia, Lizzie McGowan, Garfield, Hinze's, Pr. of Kennett, Hinsdale, Lamborn, Mrs. F. Mangold, Grace Wilder. Plants stocky, medium size, perfectly healthy. Shipped by our improved method of light packing to almost any part of the country. **Price, $5 00 per 100.**

POSITIVELY NO RUST. NEVER HAVE HAD IT ON OUR CARNATIONS.

ROSES. We still have a few thousand strong, healthy and vigorous plants. PERLES, in 4-inch pots, $10 per 100. PERLES, MERMETS, BON SILENE, SAFRANO, LA FRANCE, 3-inch pots, $7.00 per 100.

J. L. DILLON, BLOOMSBURG, PA.

Forcing Roses.

FINE STOCK, IN 3-INCH POTS.

Perle, Mermet, Bride, Meteor, Bennett, Albany and La France. Price, $5.00 per hundred.

GEO. W. MILLER. Hinsdale, Ill.

CARNATIONS

Strong, healthy, field-grown plants.

PORTIA	$ 7 00	per 100
LIZZIE McGOWAN	7 00	"
GRACE WILDER	7 00	"
TIDAL WAVE	8 00	"
ANNA WEBB	8 00	"
HINZE'S WHITE	8 00	"
GARFIELD	8 00	"
FRED. DORNER	8 00	"
AURORA	8 00	"
NELLIE LEWIS	10 00	"
DAYBREAK	12 00	"

MARIE LOUISE VIOLETS, $3, $4 and $5 per 100.

ADDRESS **N. S. GRIFFITH,**
Jackson Co. INDEPENDENCE, MO.

Independence is well located for shipping, being 8 miles East of Kansas City, Mo.

Carnations and Violets.

FIELD-GROWN.

Prices on application. . . .

NATHAN SMITH & SON,
167 W. Maumee St., Adrian, Mich.

CARNATIONS

Strong and healthy, for Immediate Delivery.

	Per 100
MRS. FISHER	$ 6.00
McGOWAN and PORTIA	8.00
AURORA	12.00
THOS. CARTLEDGE & BUTTERCUP	15.00

10 per cent. off for 500 plants; 15 per cent. off for 1000 plants.

F. M. PENNOCK, Charlestown, Jefferson Co., W. Va.

CARNATIONS.

Healthy plants for winter blooming.
TUBEROSE BULBS, home-grown, by the thousand.
CUT FLOWERS of Carnations in season.

Chas. T. Starr,
AVONDALE, Chester Co., PA.

ROSES.

Fine healthy stock. Per 100 P. 1000

Perles, Mermets, The Bride, Sunset, Niphetos, Bon Silene, Souv. d'un Ami, Duchess of Albany, Mme. Cusin, Mme. de Watteville, from 3½in. pots $8.00 $75.00

CARNATIONS. Fine, healthy stock.

PURITAN, best white, early and productive, **Aurora, Grace Darting, Lizzie McGowan, Golden Triumph, Constance, W. F. Dreer, Tidal Wave, J. R. Freeman, Silver Spray, Grace Wilder, Portia, The Century, John McCullough, Orange Blossom.**

Price, 1st size, $8.00 per 100; $70 00 per 1000.
2nd size, $6.00 per 100; $50.00 per 1000.

Daybreak, Pearl, Crimson Coronet.
Price, $10.00 per 100.

NOTE.—Our carnations have been kept sprayed and are in fine, healthy condition.

SMILAX, from 2½-inch pots 2.50 20.00

Lots of other Fine Stock.
Send for new list.

WOOD BROTHERS,
Fishkill, N. Y.

ROSES.

LAST CALL. FINE STOCK.

		Per 100	Per 1000
2,000 PERLE	3-inch,	$5 00	$40 00
1,500 PERLE	2½-in.	3 00	25 00
600 BRIDE	2½-in.	3 00	25 00
1,200 MERMET	2½-in.	3 00	25 00
130 WABAN	2½-in.	3 00	
200 HOSTE	2-inch,	3 00	
300 MME. TESTOUT	3-inch,	15 00	

BROWN & CANFIELD,
. . . . SPRINGFIELD, ILL.

The Grand New Forcing Rose,
"American Belle."
Prices and full particulars on application.
John Burton, Chestnut Hill, Philadelphia.

FIELD-GROWN CARNATIONS

of the following varieties:
Hinze's White, Silver Spray, White Wings, Lizzie McGowan, Grace Wilder, Portia, Tidal Wave, J. J. Harrison, Starlight, Golden Gate, and other varieties; good healthy plants, free from disease and in bud and bloom. Send for price list.

J. A. TRACHT & SON, Galion, Ohio.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Catalogues Received.

Z. De Forest Ely & Co., Philadelphia, bulbs and seeds; E. H. Krelage & Son, Haarlem, Holland, bulbs; Dingee & Conard Co., West Grove, Pa., bulbs and plants; Haage & Schmidt, Erfurt, Germany, bulbs; W. Atlee Burpee & Co., Philadelphia, bulbs, seeds and plants; Quaker City Machine Co., Richmond, Ind., ventilating apparatus; Schlegel & Fottler, Boston, Mass., bulbs; D. M. Ferry & Co., Detroit, Mich., bulbs and seeds; Russell Bros., Highlands, N. C., native plants; Jas. H. Scull, Cronly, N. C., decorative plants, evergreens, etc.; D. Landreth & Son, Philadelphia, bulbs and seeds; Aug. Rolker & Sons, New York, trade list seeds; F. Sander & Co., St. Albans, Eng., new and rare plants; J. H. H. Boyd, Cagle, Tenn., tree seeds; H. Cannell & Sons, Swanley, Eng., bulbs, plants and seeds; Texas Seed and Floral Co., Dallas, Tex., seeds, bulbs and plants; Livingston's Seed Store, Des Moines, Ia., bulbs, pots, etc.

YOU CAN never invest $2 to better advantage than in a copy of our trade directory and reference book.

NANCY, FRANCE. — Announcement is made of the marriage of M. Emile Lemoine, son of M. Victor Lemoine, and Mlle. Louise Gomien.

URBANA, O.—The firm of C. H. Murphey's Sons has been dissolved, Walter T. Murphey retiring. Roger H. Murphey becomes the sole owner and will continue the business.

WE request subscribers to make remittance by draft or money order when renewing subscriptions, and to keep a record of the numbers and dates of same. This is to guard against losses in the mails.

FENSTER PAPPE is the name of a new material to use as a substitute for glass on hot bed sash. It is made in Germany and comes recommended as a very useful material for the purpose. Aug. Rolker & Sons are the American agents.

THE Baltimore Cactus Society gives its first exhibition at Raine's Hall, Baltimore, September 25 to 27. The secretary, Mr. Fred W. Lantz, sends us a copy of the handsomely engraved invitation issued by the society for the occasion.

SPRINGFIELD, ILL.—David Wirth, lately foreman for L. Unverzagt, has started into business on his own account near Oak Ridge Cemetery and has built two houses, each 20x100. The South Side Floral Co. (H. P. Buckley) has added a new house 20x125.

J. B. DEAMUD & CO.

Wholesale Florists, 45 Lake St. (FLORIST EXCHANGE), CHICAGO, ILL.

We have over 100,000 feet of glass devoted exclusively to Roses. We have ten houses 21x170, containing nearly 20,000 plants of American Beauty. The balance planted to Albany, La France, Meteor, Bridesmaid, Bride, Perle, Mermet, Hoste, Victoria and Wootton. All shipments made from stock **CUT FROM OUR OWN HOUSES,** which assures our customers **Strictly Fresh Flowers.**

We ask for a trial order and we will do our best to make you our friends.

FIRST-CLASS GOODS, STRICTLY FRESH, and at REASONABLE PRICES GUARANTEED.

THEY SAY That **ASPARAGUS PLUMOSUS NANUS**

at 50 cents a string, 8 to 12 feet in length, is the cheapest and best material for decorating, as it will stand longer and look better than any other green in this hot weather

ORDER IN LARGE OR SMALL QUANTITIES, FROM

W. H. ELLIOTT, Brighton, Mass.

THE SMILAX KING!

Who? **KOFFMAN,**

Where? WALDEN, Orange Co., N. Y.

What? **SMILAX**

25c. a string; 20c. a string by the hundred; 18c. a string by the thousand.

When? ALL THE YEAR AROUND.

And he pays the Express.

WHOLESALE FLORISTS

La Roche & Stahl

N. E. CORNER 13th & Chestnut Sts., PHILADELPHIA.

HARDY CUT FERNS

LAUREL FESTOONING, SPHAGNUM MOSS,

IN ANY AMOUNT ALWAYS ON HAND.

H. E. Hartford,

18 Chapman Place, BOSTON, MASS.

SAMUEL S. PENNOCK,

Wholesale Florist

REMOVED TO REAR OF 42 S. 16th ST., Philadelphia, Pa.

Always mention the AMERCAN FLORIST when writing to advertisers.

Palms. Palms. Palms.

I HAVE TO OFFER

2,000	Latania borbonica, 5 to 7 character leaves,	at	$1.00 each
3,000	" " 4 to 6 " "	at	.75 each
5,000	" " 3 to 5 " "	at	.50 each
10,000	in 2½-inch pots, good young stock,	at	.7½
1,000	Phœnix reclinata, 6-inch pots, strong character leaves, good stock,	at	.75
2,000	Phœnix reclinata and rupicola, 4-in. pots,	at	.30

Also some specimen palms of which prices and kinds on application.

Am handling the CUT FLOWER PRODUCTS of the principal growers of this vicinity, and can handle any orders for fine stock, such as Cut Orchids, Beauties, etc.

H. L. SUNDERBRUCH,

4th & Walnut Sts., CINCINNATI, OHIO.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO.
Western Agent for the GREAT ANTIPEST.

Kennicott Bros. Co.
WHOLESALE CUT FLOWERS,
34 & 36 RANDOLPH STREET,
CHICAGO, ILL.
WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
126 Dearborn Street, CHICAGO.
Store Closes Nights 9 P. M.; Sunday 2 P. M.

NILES CENTER FLORAL CO.
Incorporated.
WHOLESALE GROWERS OF
CUT FLOWERS of ALL KINDS
and Dealers in FLORISTS' SUPPLIES.
CHAS. W. McKELLAR, Mgr.
In Chicago Cut Flower Exchange,
45 Lake St., CHICAGO.

T. J. CORBREY,
Wholesale and Commission
FLORIST,
45 Lake St., CHICAGO, ILL.
In Chicago Cut Flower Exchange. . . .

A. G. PRINCE & CO.,
Wholesale and Commission
FLORISTS,
45 LAKE STREET,
In Chicago Cut Flower Exchange. CHICAGO.

H. L. SUNDERBRUCH,
Wholesale Florist
4TH AND WALNUT STREETS,
Cincinnati, O.

W. ELLISON,
WHOLESALE
Cut Flowers and Florists' Supplies
1402 PINE STEET,
St. Louis, Mo.

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
WHOLESALE
FLORIST,
1122 PINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

Wholesale Markets.

Cut Flowers.

NEW YORK, Sept. 19.	
Roses, Gontier	.50
" Meteor	1.00@ 5.00
" Beauty	5.00@15.00
" general assortment	1.00@ 3.00
Carnations	.50@ 1.50
Gladiolus	1.00@ 1.50
Valley	4.00
Auratum lilies	4.00
Asters	.50
Smilax	10.00@12.00
Adiantums	1.00
BOSTON, Sept. 16.	
Roses	1.00@ 3.00
" Beauty	12.00@20.00
Carnations	1.00@ 2.00
Asters	.50@ 1.00
Gladioli	1.00@ 1.50
Lily of the valley	4.00
Tuberoses	.50@ 1.00
Smilax	12.50
Adiantum	1.00
Asparagus plumosus	50.00
PHILADELPHIA, Sept. 16.	
Roses	2.00@ 4.00
" Beauties	12.00@15.00
" Meteors	5.00
Carnations	.75@ 1.00
Asters	1.00
Gladiolus, tuberoses	2.50@ 3.00
Valley	4.00@ 5.00
White hollyhocks	.75@ 1.00
Balsams	.25@ .50
Adiantum	75@ 1.00
Smilax	15.00@18.00
Asparagus	60.00@75.00
CHICAGO, Sept. 19.	
Roses, Perles, Gulliot, Niphetos	2.00@ 3.00
" Albany, Bride	3.00@ 4.00
" Meteor	5.00
" Beauties	8.00@15.00
Carnations	.50@ 1.00
Auratum	6.00@10.00
Speciosum lilies	5.00
Hollyhocks, white	.60
Valley	1.00@ 3.00
Smilax	12.00@15.00
Asparagus	75.00
BUFFALO, Sept. 18.	
Roses, Beauties	8.00@20.00
" Gontier, Niphetos	3.00@ 4.00
" Mermet, Bride, Testout	4.00@ 5.00
Carnations, long	1.25
" short	.75
Gladiolus	1.50
Valley	4.00@ 6.00
Auratum lilies	6.00
Smilax	12.00@15.00
Asparagus	50.00

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers and Florists' Supplies
WHOLESALE.
67 Bromfield Street, BOSTON, MASS.

WHOLESALE
FLORISTS,
JOBBERS IN . . .
. . FLORISTS' SUPPLIES,
METS, FLORISTS'
BRIDES, VASES.
GONTIERS,
CARNATIONS,
ALWAYS ON HAND.
1 Music Hall Place,
BOSTON, MASS.
HORTICULTURAL AUCTIONEERS. . .
Mention American Florist

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St., BOSTON, MASS.

CUT SMILAX,
15 cts. per string till November 1st. Quality first-class. Special attention to orders by wire.
J. E. BONSALL & SON, 308 Garfield Ave., Salem, O

When writing to any of the advertisers on this page please mention the American Florist.

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN
AND SHIPPERS OF
Choice Flowers.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST,
32 West 30th Street, NEW YORK.
Roses Shipped to all Points. Price list on application.

JOHN YOUNG,
Commission Dealer in
CUT FLOWERS.
WHOLESALE.
46 WEST 30TH ST., NEW YORK.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS,
51 W. 30th St., NEW YORK.

JAMES HART,
WHOLESALE FLORIST,
117 W. 30TH ST., NEW YORK.
The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHRS,
WHOLESALE
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.
Established 1879.

MILLANG BROS.,
Wholesale Florists,
17 WEST 28TH STREET,
NEW YORK.
BRANCH: Cut Flower Exchange, 408 E. 34th Street.

MICHAEL A. HART,
Wholesale and Commission Florist
113 WEST 30TH STREET,
. . . NEW YORK.
THE FINEST ROSES AND CARNATIONS.
Branch, at Cut Flower Exchange, 408 E. 34th St.

EDWARD C. HORAN,
34 W. 29th Street, NEW YORK,
Wholesale Florist
Careful Shipping to all parts of the country.
Price list on application.

DAN'L B. LONG,
COMMISSION • FLORIST,
495 Washington St., BUFFALO, N. Y.
FORCING BULBS, FLORISTS' SUPPLIES,
LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and treasurer, 116 Chambers street, New York. Next annual meeting second Tuesday in June, (will probably be held in Toronto.)

A. W. LIVINGSTON'S SONS made a fine display of vegetables and seeds at the Iowa State Fair September 1.

IT IS UNDERSTOOD that a committee of the Seedsmen's League will take action upon the shortage of crops with a view of agreeing upon uniform prices.

OUR types made us use the word *seed* for the word *sets* in an item referring to the latter in our last issue. The real meaning was, we trust, not misunderstood.

VISITED CHICAGO: H. A. Johns of Sioux City, M. Kurtzweil of the Iowa Seed Co., R. A. Robbins, J. Comont, R. B. Stevens of Cleveland Seed Co., S. B. Dicks, with Cooper, Taber & Co.; U. J. Virgin of New Orleans.

Department of Agriculture Seed Notes.

An innovation which Secretary Morton purposed trying was to invite seedsmen to bid openly for the general supply of seeds, but it was found upon a personal examination by an agent of the department who traveled among the seedsmen, that they could not calculate well enough what their crops would be and consequently they would not bid. The competition which was expected, however, has caused the cost of seeds to the department to be decreased about one-quarter. Another innovation still is the proposition, which is already seriously made, to replace all the women who pack the seeds with machines. There is said to be a very successful one in use by seedsmen and it is proposed to try this. If it should prove successful one machine would do the work of eighteen women, and the cost, as it is estimated, would be about six cents a thousand packages for putting them up instead of from two to three dollars a thousand as now. The introduction of these machines would mean the permanent discharge, of course, of an average of 100 to 150 women, and while this might seem like a hardship to them, it is also to be observed that there are a great many deserving people who have never enjoyed a chance to work for the department at all. IOWA HOMESTEAD.

Bouvardias.

In No. 276 of the FLORIST Mr. Scott, in his very useful and instructive seasonable hints, says that the bouvardia is useful, but hardly profitable. Now, I beg to differ with him on the not profitable part, for I have found it one of the most useful and all-the-year-round flowers you can raise. I used to only grow the Bride and Davisonii, and for the retail trade they can't be beat, for a good bed of bouvardia is mighty useful when you have a lot of funeral work on hand; on account of its lightness and delicacy it lightens up a heavy piece better than any small flower you can use. The Bride is such a soft pink it harmonizes with almost any other flower, and for solid white work Davisonii gives it an appearance of lightness that a solid white design seldom possesses. Bouvardia cut in the early morning and dipped in water and then shaken out and placed with the stems in water is a good keeping flower, even in hot weather. I always got the best flowers from two year old plants; then you can if you wish it cut panicles of flowers with stems from one foot to eighteen inches in length, and it sells well. The double flowered varieties I do not like, and they do not get as long stems or as good trusses as the two above mentioned varieties. I do not believe in planting them in benches; give them a solid bed and they pay.

In commencing with your root cuttings don't put in any that have mealy bug at the root; put them in about February or early in March and pot off in thumbs. As soon as there is no risk of frost, say May fifteenth, plant in light rich land, using plenty of manure, and keep the plants well pinched back till after midsummer, and then you will have plants two feet high, with ten or a dozen good shoots. Make a solid bed same as an old style rose bed, using light fibrous loam, mixed with at least a third well decayed manure; plant about fourteen inches from plant to plant, and stake and tie as soon as planted. Water it in well and syringe several times a day, until plants take hold. If the plants are dry when taken up, dip the balls before planting. Towards spring mulch the same as roses. About July cut half the bed back to six inches of the surface, stir up and top-dress with a mulch composed of half soil and half manure. As soon as it begins to flower cut back the rest, and then you have it in flower at all times, and the second winter it will give you enormous crops of flower.

Old plants can not be carried over on a bench satisfactorily, as it is next to impossible to keep them moist, and if allowed to get dry it is always hard and spidery. Cutting back also keeps down mealy bug, which is very partial to bouvardias, and when planting any that have bug at the roots should not be used. Treated this way and given plenty of water without being allowed to get sodden at the root, and the house kept at a night temperature of not less than 60°, you will find it useful and profitable.

Madison, N. J. JAS. S. TAPLIN.

"Mexican Roses."

Last spring a fakir sold a good many packages of "Mexican rose" seed to people in Pittsburg. The seed that germinated has produced the plain, everyday mustard and the victims are now very wroth.

PLEASE WRITE on your printed letter head when addressing our advertisers. If you have no printed letter head, then enclose your business card or bill head.

DUTCH BULBS, A full stock now ready. Very close rates on DUTCH HYACINTHS in all grades.

LILIUM CANDIDUM, large, plump, solid bulbs, per 100 $2.75; per 1000 $23.00.
FREESIAS, clean, large, healthy bulbs, first size $4.50; select $7.50 per 1000.
ROMANS, PAPER WHITE NARCISSUS, and a **FULL LINE** of all Fall Stock.
ROSE C. SOUPERT, 2½-inch, fine stuff, per 100 $3.50; 3½-inch, per 100 $8 00.
LATANIAS, 4-inch stuff, grown cold, well rooted, 3 to 5 character leaves, ready for 5-inch pots, per dozen, $4 00; per 100, $30.00.
PHŒNIX RECLINATA, 5-inch, good value at doz. $5.00.
Plant prices are at our Greenhouses.

PANSY, VAUGHAN'S INTERNATIONAL MIXTURE, Now Ready, is a World Beater.
NEW CROP SEED, per ⅛ oz. $1.50; oz. $10.00. Also separate colors in great assortment.

Vaughan's Seed Store,
148 W. Washington St., CHICAGO. 26 Barclay St., NEW YORK.

BULBS! BULBS!
Lilium Auratum, Spec. Rubrum, Spec. Album, Longiflorum, etc. Order now.
Callas, Callas, at lowest rates: Fresh Cut Cycas leaves, prices and sizes to suit all. Fresh imported Cycas, lowest prices. Camellias, Pæonias, Japan Maples, and for general Japanese stock seeds. Remember we guarantee sound delivery, still goods travel at owner's risk. Apply to
F. GONZALEZ & CO.,
Nursery and Greenhouses, 303 to 312 Wayne Street, SAN FRANCISCO, CAL.

OUR TRADE DIRECTORY AND REFERENCE BOOK WITH CORRECTION SHEET FOR 1893 $2.00.
AMERICAN FLORIST COMPANY, CHICAGO.

FLORISTS BULBS UP TO DATE

CONDITIONS. **We guarantee good, sound Bulbs of first quality or no sale,** and if not such, they can be returned at our expense, if **within five days after receipt by you.**

OUR TERMS. **We allow 4 months Credit, or 5 per cent. discount for cash in 10 days from date of bill. Bills under $25.00 are net.**

A HELPER. **We furnish free** to our customers buying bulbs of us to sell again, a nice retail catalogue with **their** name and address **alone** on it. Priced to give a good margin of profit and yet attract to **them** local orders.

YOU WANT **our Wholesale Price List before buying if you have not already had it, write for it.** Prompt answers to all letters.

WE ARE READY TO DELIVER

DUTCH HYACINTHS.

	Per 100	Per 1000
Single or Double, Red, White and Blue, colors and shades separate. Your selection	$2.75	$25.00
SECOND SIZED NAMED VARIETIES (a bargain for florists). Equal quantities Red, White and Blue, our selection	4.00	35.00

Finest sorts for forcing and only those produciug large spikes. Names and colors marked.

TULIPS.

SINGLE OR DOUBLE,	fine Mixed Early sorts	1.00	7.50
" "	Extra Selected sorts for forcing	1.50	12.00
" "	Fiue Mixed LATE sorts	1.50	12.00
SINGLE NAMED VARIETIES,	best Scarlets mixed	1.75	14.00
" " "	best Yellow mixed	2.25	20.00
" " "	best Whites mixed	1.75	14.00
" " "	best Pink mixed	2.25	20.00
" " "	best Striped mixed	1.75	14.00

These mixtures of Named Tulips will be all true to colors specified, and embrace in each color some of the very finest sorts of that color.

We are prepared to quote **bottom prices** on all leading varieties of Florists Tulips by the 100, 1000 or 10,000 of a kind, such as **Yellow Prince, La Reine, Belle Alliance, Chrysolora, Keiserskroon, Pottebaker, etc.**

NARCISSUS, or DAFFODILS.

	Per 100	Per 1000
Von Sion (Double Yellow), First size	$1.75	$16.00
Von Sion " " Extra Selected	2.50	22.00
Double Roman (Constantinople)	1.25	10.00
Orange Phœnix (Double White and Orange)	2.00	17.50
Trumpet Major (True Single Daffodil)	2.00	17.50
Paper White, fine bulbs	1.00	7.50
" " graudiflora	1.25	10.00
ROMAN HYACINTHS. Pure White, 11x15	2.50	21.00
" " 11x12	2.00	16.00

LILIES.

Lilium Candidum.	Magnificent Bulbs	2.50	20.00
" Harrisii.	Choice, 5x7	2.75	25.00
" "	Choice, 7x9	5.00	48.00
" "	(now **scarce**), 9x11	12.00	
WHITE CALLA.	First Size Roots	8.00	
	Selected, Large Roots	10.00	

FREESIA.

First Size, our own selected		1.00	7.50
Extra Large, our own selected		1.25	10.00
French grown, very good		.75	6.00
Bermuda grown (long bulbs)		.50	4.00
ALLIUM NEAPOLITANUM.	Fine large bulbs	.75	5.00
CROCUS.	Fine Mixed, White, Blue, Striped Yellow and all colors.	.30	2.50
	Named Varieties, Extra bulbs	.50	4.00
LILY OF VALLEY.	Fine Berlin Pips (in cold storage)	1.50	12.00
ANEMONE FULGENS.	Scarlet Wind Flower	1.50	12.00
SCILLA.	Peruviana Alba	5.00	
GLADIOLUS.	SHAKESPEARE, New Extra, Earliest Forcer—beautiful white, suffused carmine rose with large rose blotch, large flower of great substance	8.00	
ORNITHOGALUM.	Arabicum, (Star of Bethlehem), large bulbs	1.50	12.00

WRITE FOR OUR PUBLICATIONS ON BULBS

MUSHROOM SPAWN. Finest English mill track, $9.00 per 100 pounds.

Z. DE FOREST ELY & Co.

Wholesale Bulb Growers and Importers.

1024 Market St., PHILADELPHIA, PA.

P. O. BOX 1176. TELEPHONE 3415.

REGISTERED CABLE ADDRESS: DE FOREST, PHILA.

HYACINTHS, TULIPS.

Full assortment ready now. Our stock is A No. 1 in every way.

FREESIAS.

Select Stock. Per 100, 75 cents; per 1,000, $4.50.

PANSY SEED

BARNARD'S FLORIST MIXTURE is popular wherever tried. Trade packet, 25 cts.; ⅛ ounce, $1.00.

W. W. Barnard & Co.

6 and 8 N. Clark Street, CHICAGO.

☞ Send for Fall Bulb Catalogue.

Mention American Florist

HULSEBOSCH BROS., BULB AND PLANT GROWERS,

OVERVEEN, near Haarlem, HOLLAND.

	Per 100	1000
Lilium Harrisii, 4 to 5-inch in circ	$2.20	$19.00
" " 5 to 7-inch in circ	3.00	24.00
" " 7 to 9-inch in circ	5.25	47.00
" " 9 to 12-inch in circ	11.00	100.00
Lilium Longiflorum 10 per cent dearer than Lilium Harrisii.		
Roman Hyacinths, extra selected	2.50	22.00
" top roots	3.00	25.00
Narcis. Totus Albus, extra selected	1.00	7.50
" " " Grandiflor'm, ext. s'l'c'd	1.50	11.00

Fall Wholesale Catalogue now ready. Address

A. HULSEBOSCH,

P. O. Box 3118. Warehouse 58 West Street,

NEW YORK CITY.

Mention American Florist.

Bulbs.

New List now ready; free to applicants. Address . . .

August Rölker & Sons,

P. O. Station E, NEW YORK.

SEND for Catalogue of



JAPAN BULBS, SEEDS and SHRUBS, ARAUCARIAS, TREE FERNS, AUSTRALIAN PALM SEEDS, CALIFORIA BULBS and SEEDS to

H. H. BERGER & CO.,

Established 1878. SAN FRANCISCO, CAL.

Bulbs & Plants.

FOR CATALOGUES, ADDRESS

C. H. JOOSTEN,

IMPORTER,

3 COENTIES SLIP, NEW YORK

Bulbs.

A complete stock now ready. Send for our new list of Bulbs, Supplies, etc., etc.

WISCONSIN FLOWER EXCHANGE,

468 Milwaukee St., Milwaukee, Wis.

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to

Seed Bags and Catalogue Envelopes.

NEW HAVEN, CONN.

LILIUM HARRISII.

Original and largest growers of this important bulb.

OUR SPECIALTY!

True Stock. Lowest Prices. Best Quality.

F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

How can we Best Elevate our Profession?

Among the several able essays read before the St. Louis convention those read by Messrs. Robert Craig and Geo. C. Watson held my attention the closest from the fact that I expected to find my hobby incorporated in one or the other. But to my surprise both gentlemen overlooked it, no doubt unintentionally. To increase the love of flowers among the people is in my opinion not a difficult problem. Mr. Craig says most of us have not fully improved our opportunities in this respect; we cannot do too much in making our own home surroundings attractive with flowers, and thus give our patrons ideas of what may be done. Mr. Watson lays great stress upon exhibitions. This is all very well, but how both gentlemen omitted the greenhouses puzzles me.

What a disappointment to many, who, after viewing the home surroundings and the exhibitions, go to the greenhouses to see where these plants are grown and seek a little information that we are always ready to give. There they are first treated to heaps of rubbish during wet weather or in a thaw to mud ankle deep, break neck steps, and the worst of all, dirty slushy walks. How many of us have not, while showing ladies around, seen them hesitate on account of disgraceful walks and finally see them give it up with the remark, "Oh, I should think it would be to your interest to keep your place fit for visitors! Who can take any pleasure in walking through these houses?" And how many have dirty, rotten sheds that they call an office, with not even a chair to offer a lady who prefers to wait there while her order is being filled.

In the four years that I have been engaged in this delightful occupation, I regret to say my observation is that there is a large degree of unpardonable slovenliness, lack of taste and pride among those in the business. I came from the farm, and am sure I can point out in ten miles square more tidily and orderly kept farms than I can florists' establishments. And one other thing I give a thorough farmer credit for—he prefers an intelligent and neat employe to a cheap tramp and makes a distinction between a common, careless hand and a reliable, respectable one. In this I find many florists entirely different. It is especially so below the Mason and Dixon line. There black and white, tramp and otherwise, are always on a parity. To accomplish what these learned florists advocated before the convention can in my opinion never be until floriculture is lifted up in this respect.

It seems to me if one of these gentlemen had chosen this subject, "How can we best elevate our profession," he would have started a breeze that would eventually develop into a wind that would blow this profession a great amount of good. The first move of every florist should be to maintain a neat, attractive front to his establishment; order and neatness should also prevail inside. Some say it does not pay; I hold that it does pay. People like to visit greenhouses, and it pays to show them around, too, the rich and the plain alike. The next move should be in the direction of a more intelligent class of help.

I sometimes think what I would do if I were an employer. In the first place I would hire only intelligent and polite young men. Then I would treat them as such. Each one would, I am certain, have been of sufficient profit to me at the end of the year to deserve a Christmas present to the amount of one dollar; this I would convert into a subscription to the AMERICAN FLORIST. Then I would pay as I agreed, either by the week or by the month, and not let men go two or three months without a cent. And if I sent a manifesto to my colleagues in regard to attending the convention I would not only say "Let's all go," but also "Let's all pay our hands before we go." It is the height of injustice for an employer to let his men go two months without a cent and go to the convention and cut a swell with their wages.

P. D. GATION.

[Our correspondent has certainly drawn a very unattractive picture. We know that there are such places as he has described, but we question whether they are in the majority at the present time. They are a relic of the past and where they do exist their owners are being rapidly pushed to the wall by the enterprising men who constitute the backbone of the trade to-day.—ED.]

SPRINGFIELD, O.—The Good & Reese Co.'s new range of houses are nearing completion and are said by all who have seen them to be models in every detail. Locust posts and cypress lumber were used. The benches are covered with ¾-inch thick slate. Size of glass 16x24. Ventilating done by the Champion Automatic Machine. The heating will be by steam, half being placed overhead and halt under the staging. Three of the houses are 20x225 and three of them 20x100. These additional houses gives them probably the largest glass area in the west, none of it being over three years old. The firm makes a specialty of growing rose plants and claims to be the largest growers of them in America.

BAY CITY, MICH.—Albert G. Boehringer, formerly at the Michigan State Agricultural College, and his brother, Rudolph G. Boehringer, have entered into partnership under the firm name of Boehringer Bros., and will conduct a florist business. They are building two greenhouses, each 18x75.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

PANSIES.

THE BEST ARE THE CHEAPEST.

My customers say that mine are the best they can buy in all that goes to make good Pansies, **size, color, form and substance.** Try them, and you will say so yourself. They are better this season than ever, and if you don't want more, get a hundred for comparison with others you grow.

The **Plants** are good as well as the strain, and for the asking I will mail you an honest sample. **Price free by mail 75 cts. per 100, or $3.00 per 500; by express $5.00 per 1000.** 50,000 ready to ship every week from now until Dec. 1st.

L. B. 496. ALBERT M. HERR, LANCASTER, PA.

ZIRNGIEBEL'S Giant Market and Giant Fancy PANSIES,

are without question the most popular strains in cultivation up to date.

New Seed ready now, in trade packages of either strain, at one dollar each.

PLANTS FOR SALE.

Denys Zirngiebel,
NEEDHAM, MASS.

PANSIES WORTH RAISING.

The kind that Sell at Sight.

Large plants, some in bud, $5.00 per 1000; $1.00 per 100. Seed, $1.00 per package of about 2000 grains.

GRACE WILDER CARNATIONS, field-grown extra large, choice plants, $8.00 per 100.

Cash with order.

CHRISTIAN SOLTAU,
199 Grant Ave., JERSEY CITY. N. J.

PANSIES.

Nice plants of my selected strain, the best for florists. 65 cts. per 100; $5.00 per 1000. Fresh seed 50 cts. per pkt. (1000 seeds.)

ADOLF STAHL,
JOHNSTOWN, PA.

Big Pansies.

You can't miss it with the **Giant Market Strain.** It is superb. Strong, transplanted plants ready Sept. 25, at $1.00 per 100; $8.00 per 1000. Send your orders now.

WM. DEGNER, Muscatine, Iowa.

PANSIES.

Best mixture of German bedding varieties now ready, per 1000 $5.00; per 100 60c. We have also separate colors, ready in two weeks.

BRAUER & RICHTER,
McCONNELSVILLE, OHIO.

SUPERB PANSIES.

My "Rainbow Mixture"

is a combination of the very best strains in existence, and is sure to give satisfaction. Young plants 65 cents per 100 by mail; $5.00 per 1000 by express. Cash with order or C. O. D.

GEORGE CREIGHTON, Poughkeepsie, N. Y.

SPECIAL SEPTEMBER OFFER.

Extra Pansy Seed.

A grand collection of giant flowering varieties, carefully selected; receive high praise from florists; no finer strain offered anywhere. A liberal offer. Trade pkt., 500 seeds, 25 cts.; 3 pkts. 50 cts.; 7 pkts. $1.00.

JOHN F. RUPP, Shiremanstown, Pa.

COLUMBIAN PANSIES.

A limited supply of plants during the season, at 70c. per 100; $5.00 per 1000. It will pay you to send your address to

W. J. ENGLE,
Box 211, Dayton, Ohio.

PANSY PLANTS.

From seed of my own importation from pansy specialist of Germany, by far the largest size, and finest colored strain ever offered to florists before. Order at once; stock limited. 75 cts. per 100; $5.00 per 1000.

Wm. C. Eger, 825 Union St., **Schenectady, N. Y.**

CLEMATIS.

Large flowering, colors in variety, double and single, strong blooming plants. Plenty of Jackmanni and Henryi, best purple and white, $3.00 per dozen; $20.00 per 100. Send for list.

CYCLAMEN persicum splendens, blooming bulbs, $8.00 per 100.

Snowflake Daisy, double white, $1.00 per 100.

Longfellow Daisy, double red, $1.00 per 100.

F. A. BALLER, Bloomington, Ill.

SEND FOR A COPY
OF OUR
TRADE DIRECTORY

AMERICAN FLORIST CO., CHICAGO

Roses, Etc.

We offer in prime quality **ROSES** from 2-in. pots at $4.00 per 100; 3-in. pots at $6.00 per 100; of the following sorts, and many others, La France, White La France, Catherine Mermet, The Bride, Perle des Jardins, Niphetos, Mme. Pierre Guillot and others, strong 2½-in. $6.00 per 100.

BOUVARDIAS.
Single and Double, all colors, 2 inch pots, $4.00 per 100; 4-inch pots $8.00 per 100.

CHRYSANTHEMUMS.
From $4.00 to $25.00 per 100; in all sizes. choicest sorts only.

VIOLETS.
Single and Double, 2-inch pots, $4.00 per 100. Prepared for winter forcing.

FERNS.
Pteris argyrea, 3-inch, strong, $6.00 per 100.

PANSIES.
Extra fine German and French strain, from 2-inch pots, $2.00 per 100. From seed boxes, $1.00 per 100.

DUTCH BULBS and LILIES at New York prices.

	Per 100
Petunias, double fringed	$ 4.00
Heliotrope Mme. Ducharte	4.00
Ampelopsis Veitchii	4.00
Jasmines, 6 sorts	4.00
Hibiscus, single and double	4.00
Geraniums, scented and variegated	4.00
Fuchsias, stock plants	5.00
Palms. in variety, 3-inch pots	10.00
Begonias, stock plants	6.00

We have expert growers for each specialty, and guarantee satisfaction. ADDRESS

NANZ & NEUNER,
Louisville, Ky.



Write for Wholesale List.

MICHEL PLANT AND BULB CO.,
ST. LOUIS, MO.

New, Rare and Beautiful Plants,

ETC., ETC.

A large collection of Hothouse and Greenhouse Plants, carefully grown, at low rates.

RARE AND BEAUTIFUL EVERGREENS, ORNAMENTAL TREES, SHRUBS, &c.

ORCHIDS—a very extensive stock; East Indian, Mexican, Central and South American, etc.

Hardy Perennials, Pæonies, Phloxes, Japanese Iris, Roses, Clematis, etc. New and Standard Fruits, etc.

☞Catalogues on application.

JOHN SAUL, Washington, D. C.

HEADQUARTERS for WATER LILIES

SEEDS, TUBERS AND PLANTS, ready for shipment at all seasons and to all parts of the world. Don't fail to inspect our Columbian Exhibit at the World's Fair.

Illustrated Catalogue on application.

WM. TRICKER, DONGAN HILLS NEW YORK.



TRY **DREER'S GARDEN SEEDS,** Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.

HENRY A. DREER, Philadelphia, Pa.

LOUIS BOEHMER. ALFRED UNGER.

Extract of Wholesale Catalogue 1893-'94.

L. BOEHMER & CO.,

4, 5 & 28 Bluff, Yokohama, Japan.

PLANTS.

	Per 100
ACER POLYMORPHUM, the best red leaved variegated varieties, 18 inches to 2 feet	$15.00 silver.
" " " " " " 2 to 3 feet	18.00 "
AZALEA INDICA, single white, lilac, red, etc., strong bushy plants	15.00 "
ARDISIA CRISPA, beautiful red berries, 8 and 10-inch pot plants	20.00 "
CAMELLIA JAPONICA, fine plants out of pots, 15 to 18 inches high, double pink and red	15 00 "
" " " " " " " variegated & white	20.00 "
DAPHNE ODORATA, pink or white, 18 in. high, beautiful, scented, early flowering shrub	15.00 "
GARDENIA RADICANS fl. pl.	20.00 "
" GRANDIFLORA flore pleno	20.00 "
MAGNOLIA CONSPICUA, pot grown	20.00 "
" OBOVATA, red, pot grown	20.00 "
" " purple, pot grown	20.00 "
" STELLATA, pot grown	20.00 "
" KOBUS, pot grown	15.00 "
" HYPOLEUCA, pot grown	15 00 "
" PARVIFLORA ERECTA, beautiful, scented	20.00 "
" " PENDULA, " "	25.00 "
OLEA FRAGRANS, small yellow flower, very sweet scented shrub	20.00 "
PLECTOGYNE (Aspidistra) VARIEGATA, per 100 leaves	3.00 "
SYRINGA JAPONICA, pot grown	20.00 "
SCIADOPITYS VERTICILLATA, 1 to 1½ feet, open ground	25.00 "
" " 1½ to 2 feet, "	30 00 "
" " 2 to 2½ feet, "	35.00 "
" " 2½ to 3½ feet, "	45.00 "
DAVALLIA BULLATA Fern Designs, very nice	25.00 "
	Per 1000
DIOSPYRUS KAKI, Japanese Persimmons, 6 best varieties including seedless, open ground, from 3 to 4 feet	$30.00 "
JAPANESE PLUM TREES, open ground, 3 to 4 feet	50.00 "
" GIANT CHESTNUT TREES, open ground, 3 to 4 feet	45.00 "
CITRUS (Limonia) TRIFOLIA, the best stock for grafting oranges, and an excellent hedge plant (evergreen and thorny), open ground, 1 to 1½ feet	7.50 "
PEAR SEEDLING, best stock for grafting, open ground, pencil thickness, 2 to 3 feet	7.50 "
ELÆAGNUS LONGIPES, a new Japanese fruit	40.00 "

PRICES ARE FREE ON BOARD IN YOKOHAMA.

There is no danger in shipping any goods from here to the United States, we can prove sound arrival through the best and largest firms. REMEMBER THAT YOU RECEIVE FOR 100 GOLD DOLLARS about 165 silver dollars' worth of goods at the present low exchange. Freight to any United States point only 1½ gold per pound.

WE HANDLE FIRST RATE STOCK ONLY.

BANKERS: Hongkong & Shanghai Banking Corp; Agencies: New York and San Froncisco.

We are Headquarters for CYCAS REVOLUTA, the true long-leaved variety.

Collected Stems, Fronds and Roots cut off, per 1000 lbs. $50.

Please write to us before purchasing anywhere else, as we can give you best prices, and you can depend upon our packing, etc.

CABLE ADDRESS: **BOEHMER, YOKOHAMA.**

FICUS · ELASTICA.

An extra large stock of fine, strong plants.
Write for special prices.

ANDORRA NURSERIES, Chestnut Hill, Philadelphia, Pa.

Roses and Smilax

2½ and 3-inch pots, strong plants.

WRITE FOR PRICES.

Kemble Floral Co.,
OSKALOOSA, IOWA.

Mention American Florist.

Surplus Stock.

1000 La France, fine large plants, ready for the bench $6 00 per 100
100 Perles 5.00 "
1000 Smilax, large bushy plants . . . 2.00 "
Cash with order.

JACOB MENDEL, Nyack, N. Y.

CHOICE SWEET PEAS.

Being the largest growers of the above in the world the trade are invited to send a list of their requirements and secure low prices for Fall delivery.

SHERWOOD HALL NURSERY CO.
Menlo Park and San Francisco, Cal.

Mention American Florist.

VIOLETS.

500 MARIE LOUISE.

Nice, healthy, clean and well rooted plants. from 3½-inch pots, $7.00 per 100

F. CULVERT & SON, Lake or

Springfield, Mass.

The begonia show of the Hampden County Hort. Society was very successful. The tuberous begonia exhibit occupied about 50 feet of the floor space. Of this 24 was taken by the exhibit of F. R. Belden, who showed about 40 varieties. Among Mr. Belden's begonias were several seedlings which were planted in February and which had 60 per cent of double flowers. From the conservatories of the late John E. Taylor were 27 varieties of tuberous begonias, beside a handsome gloxinia, two shrubby begonias and seven handsome specimens of the begonia rex. The largest exhibit in the hall was the fine collection of asters, dahlias, gladiolus, euphorbia and phlox shown by L. D. Boyington. Other noteworthy exhibits were the asters and gladiolus shown by L. D. Robinson, six bouquets from Edward Cook, miscellaneous exhibit from Rev. W. T. Hutchins, gladiolus and fruited branch of new cherry crab-apple from J. W. Adams & Co., dahlias and fuchsia from C. L. Simons, Appoline rose from A. M. Grant, and fine specimens of 10 varieties of grapes grown by R. H. Smith.

Canna Paul Marquant.

Mr. L. B. Coddington, of Atlanta, Ga., writes that he recently observed a big block of this canna growing on the grounds of the F. R. Pierson Co, at Scarborough, N. Y., and that however it may appear at the Fair it leaves nothing to be desired as seen at Scarborough. He was very favorably impressed with the variety, and believes it has even a better constitution than Mme. Crozy.

PROVIDENCE, R. I.—The Rhode Island Horticultural Society held a successful aster and dahlia show on Saturday, September 9. The exhibition was a magnificent one and attracted a large assemblage of visitors. One of the largest exhibitors was Wm. H. Tarbox of Crompton who showed over two thousand asters and three hundred and fifty dahlias, in almost endless variety. Among the notable visitors in the afternoon was Dr. Mary Walker, who seemed to enjoy the exhibition greatly. In addition to the flowers, there was quite an extensive display of fruits and vegetables.

CLINTON, MASS.—The Amateur Horticultural Society held their annual exhibition on the afternoon and evening of September 9. The exhibition was very satisfactory and was considered a great success by the members. This is a young society and the present is its first public exhibition. Among the exhibitors were E. W. Breed of Clinton and G. F. Chandler of South Lancaster. The judges were C. T. Fletcher, John Clark and E. O. Orpet, all private gardeners on the Thayer estates in Lancaster.

Association "Flora"
BOSKOOP, HOLLAND
NURSERIES.
Roses, Clematis, Shrubs, Azaleas, Palms, Herbaceous Plants, Bulbs, Etc.
Catalogue on Application.
P. OUWERKERK,
206 Cambridge Ave., JERSEY CITY, N. J.

Always mention the American Florist when writing to advertisers.

3,000 Azalea Indica,
Full of buds, best kinds, in splendid condition,
JUST ARRIVED.
MUST BE SOLD AT ANY PRICE.
LUDWIG SCHILLER,
German Hort. Department, WORLD'S FAIR.

HOW TO GROW CUT FLOWERS.
A PRACTICAL TREATISE ON
THE CULTIVATION OF THE ROSE,
And Other Flowering Plants for Cut Flowers, sent to any address upon receipt of $2.00. M. A. HUNT, Terre Haute, Ind.

HEADQUARTERS for CHRISTMAS TREES.
Selected Blue Spruce and Balsam Fir, in car lots, at BOTTOM PRICES.
EARLY CORRESPONDENCE SOLICITED.
W. D. Boynton, *Nurseryman*, Shiocton, Wis.

ASPARAGUS PLUMOSUS NANUS.
HERE THEY ARE!
And look at the price for fine plants, in 4-inch pots, good enough to retail this winter for a dollar each. No florist should be without this salable plant.
$20.00 PER 100.
Cash with order or C. O. D.
ALEX. SCOTT,
Balto. Co., Lauraville, Md.
Mention American Florist.

PRIMROSES.
Assorted, in 2-inch pots; strong, healthy stock; Rupp's strain, $5.00 per 100; $40.00 per 1000.
ART FLORAL CO.
280 East 40th Street, CHICAGO.

Special Offer to American Trade.
LOUIS DE SMET,
NURSERYMEN, GHENT, BELGIUM,
OFFER AS SPECIALTIES:
Palms, Azalea indica and mollis, Araucaria excelsa (thousands), Bay Trees, Tuberous Begonias, Gloxiuias.
☞ New Trade List on application. . . .

Fern
PTERIS TREMULA, in 2 and 2¼-inch pots, $4.00 per 100. $3.50 in 500 lots.
Cash with order. Address
R. WITTERSTAETTER,
SEDAMSVILLE, OHIO.

—SMILAX.—
Extra strong plants from 2½-inch pots, only $1.25 per 100; $10.00 per 1000.
Address H. MADSEN,
Box 873. SPRINGFIELD, MASS.

Phœnix rupicola.
This useful and beautiful Date Palm in EXTRA FINE PLANTS, growing in from 7 to 10-inch pots, from $3.50 to $7.50 each, according to size.
EDWIN LONSDALE, Wyndmoor,
STATION "G," PHILADELPHIA.
(Chestnut Hill P. O.)

E. G. HILL & CO.,
Wholesale Florists
RICHMOND, INDIANA.

HYDRANGEAS, SMILAX AND CARNATIONS.
HYDRANGEAS, strong, from open ground, Otaksa and others, 3 to 6 heads, $8.00 and $10.00 per 100.
CARNATIONS, Portia, strong clumps, from open ground, $6 00 per 100; $50.00 per 1000.
SMILAX, extra strong, 3-inch pots, $3.00 per 100; $23.00 per 1000.
PAUL BUTZ & SON, New Castle, Pa

CYCLAMEN persicum giganteum, 3 inch pots $6.00 per 100
PANSIES, Mammoth Strains, 75 cts. per 100 $5.00 per 1000.
CARNATIONS, Dorner's Seedlings, $15 per 100
Daybreak . . . $8.00 to $10.00 per 100
McGowan, Puritan, Wilder, and others, $8.00 per 100. Second size $6.00 per 100
Correspondence solicited.
Address J. G. Burrow,
FISHKILL, N. Y.

VIOLETS. ROSES. VIOLETS.
Our violets are positively free from disease.

	Per 100	Per 1000
Violets Marie Louise, fine cuttings.	$ 2.50	$25.00
Roses Gen. Jacqueminot, from 5-in. pots.	8.00	75.00
Roses Gen. Jacqueminot, from 4-in. pots.	6.00	55.00
English Ivies, 4 to 6 feet long, pot grown.	5.00	

When ordering, give directions how to ship. Cash with order, 5 per cent. discount.
JOHN RECK, Bridgeport, Conn.

Always mention the American Florist when writing to advertisers.

A FIRST-CLASS
Certificate of Merit
—TO—
H. BAYERSDORFER & CO.
For the Best Exhibit of
FLORISTS' SUPPLIES.

The only Certificate of Merit awarded for Florists' Supplies at the S. A. F. Convention at St. Louis.

OUR FALL SPECIALTIES:
Celluloid Flower Baskets;
Pot Covers and Pedestals,
Ferneries in Nickel, Gold, Silver and Bronze.

The Latest Novelties in French and German
METAL WREATHS,
CYCAS LEAVES,
WHEAT SHEAVES.

NEW STOCK OF IMMORTELLES JUST ARRIVED PER S. S. SWITZERLAND.

Lowest Prices furnished on application.

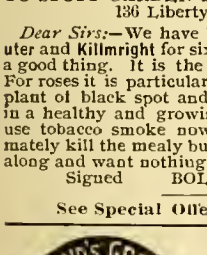
H. Bayersdorfer & Co.,
56 N. 4th St.,
PHILADELPHIA, PA.
WHOLESALE ONLY.

MARSCHUETZ & CO.,
Florists' Supplies,
23 & 25 N. 4th St., PHILADELPHIA, PA.
Send for Catalogue.

TO STOTT GARDEN IMP'T CO.,
136 Liberty Street, New York.

Dear Sirs:—We have been using your Distributer and Killmright for six months and consider it a good thing. It is the best thing ever got out. For roses it is particularly good. It cures a rose plant of black spot and mildew and keeps them in a healthy and growing condition. We never use tobacco smoke now. It will certainly ultimately kill the mealy bug. We will keep it right along and want nothing else.
Signed BOLANZ BROS., Akron, O.

See Special Offer Aug. 3 and 17.



Kills Mildew and Fungus Growth. What does?
GRAPE DUST.
Sold by Seedsmen.

JULES DE COCK'S NURSERIES
GHENT, BELGIUM.
OFFER TO THE TRADE OF GOOD PLANTS.
10,000 Araucaria Excelsa; 100,000 Begonia Bulbs.
30,000 Azalea Indica; 20,000 Azalea Mollis.
100,000 Palms, different sorts, all sizes.
10,000 Laurel Bays, Standards and Pyramids.

SURPLUS STOCK.
First-class Geraniums, 2-inch, red and scarlet, single, in bud and bloom, per 100 $3.00; per 1000 $25.00.
ELGIN ROSE CO., Elgin, Ill.

I have just Received a Large Consignment of . . .
CAPE FLOWERS.
Best large flowers 80 cents per pound.
Second size " 45 cents "
In lots of not less than ten pounds.
—CASE PRICE ON APPLICATION.—
The latest designs of **Metal Wreaths, Crosses, a. s. f.** of my own manufacture at very reasonable prices.
A. HERMANN, Manufacturer of Metal Designs and Dealer in Florists' Supplies,
415 East 34th Street, NEW YORK CITY.

Immortelles, white and other colors, at $3 the dozen bunches. Natural yellow, at $2.25.
Cycas Leaves (Sago Palms), natural prepared, equal to fresh cut in appearance, from 28-in. upwards, at 40c., 45c., 50c., 60c., 75c. and $1.00 each, according to length.
Metal Designs, Wreaths, Crosses, Anchors, etc. in the latest French styles, from 50 cents net apiece upwards.
Baskets of all styles, Plain and Fancy, for School Commencements, Dinners, Receptions, Favors, etc.
Supplies of all kinds, such as Bouquet Papers, Wax Paper, Foil, Everlastings, Letters, Wire Designs, Funeral Sheaves, Doves, etc. For prices consult our
New Trade List out, mailed free.
August Rölker & Sons,
136 & 138 W. 24th St., P. O. Station E. **New York.**



WHITE DOVES
FOR FLORISTS.
Largest and finest stock in the United States. Write for prices to
S. J. RUSSELL,
850 Montgomery St., Jersey City, N. J.
For sale by all first-class dealers in Florists' Supplies.

You Will all Want
The New Yellow Coleus GOLDEN CROWN,
As it takes all others yellows down;
And will soon be all the go,
Because so very easy to grow.

There is nothing **Pale or Weak** about it. You **can't afford** to run without it; $3.00 per doz. Orders booked now for delivery November 1st, or as soon as ready. Or Gibson's beautiful scented Hybrid Pansies, 2000 seeds $1.00. Or Gibson's superb well mixed Hybrid XX and XXX Mammoth Verbenas, 2000 seeds 60 cts. and $1.00. Trial packet of XXX for 10 cts. in stamps. **No better** for florists' use ever offered anywhere; our own growing from stock composed largely of Climaxer and Beauty of Oxford and the choicest selection from the thousands of our fine seedlings, florets immense, many of them will nearly cover a silver half dollar, and of exquisite beauty and fragrance, and richest imaginable colorings. Try a packet and realize all there is in the verbena to date. Or the finest Double Fringed Petunia (Dreer's Strain), hybridized by hand, 1000 seeds $1.50. Snow Crest Daisy, $5.00 per 100. Other specialties later. Cash with order please.
Address **J. C. GIBSON, Woodbury, N. J.**

1000 SMILAX.
Extra Strong Plants.
The lot for $18.00 cash with order. Sample sent.
Also several thousand good **Field-grown Carnations.**
J. C. RENNISON,
SIOUX CITY, IOWA.

Florists and
FLOWER
15
Varieties of Pansy Seed
Trade Pkt, 500 Seeds, 10 cts.
MISS C. H. LIPPINCOTT, 319-23 SIXTH ST. S., MINNEAPOLIS, MINN.
My trade list of the choicest and most desirable kinds for Florists' use. Ready next month. Send for it. Will save you money.
Giant Trimardeau Pansy
500 Seeds 15 cts.
SEEDS
Market Gardeners

Siebrecht & Wadley,
ROSE HILL NURSERIES,
NEW ROCHELLE, N. Y.
Palms,
ORCHIDS
Roses,
and New Plants.
FRESH DRACAENA CANES NOW READY.

ORCHIDS.
The Finest Stock in the World.
SANDER'S,
ST. ALBANS,
ENGLAND.
Thirty minutes from London.
Our Mr. A Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City

Established and Imported
ORCHIDS.
Ig. FORSTERMAN,
Newtown, N. Y.

WHY NOT TRY
A FEW ORCHIDS?
They are Very Cheap. They are Easily Grown. They Sell Well.
They always attract attention in store or greenhouse.
BRACKENRIDGE & CO.,
304 W. Madison St., BALTIMORE, MD.

Mention the American Florist when writing to advertisers on this page.

Marblehead, Mass.

The third annual flower show was held at Abbott Hall on August 31. The exhibition was as good, if not better than its predecessors. The attendance was larger than ever before. There were over two hundred exhibitors. In asters alone there were seventy-eight exhibitors, and there were seventy-five entries for the bouquet premiums. The participants were mainly amateurs, and the flowers came from their home gardens. One could scarcely believe that the rocky gardens and close quarters of old Marblehead could produce such a display. Mr. Wm. Craff, the largest exhibitor, is a shoe cutter in one of the factories, and he and his wife are enthusiasts in flower culture.

The "amateur" was seen in many of the vases of flowers, bouquets, etc., in the arrangement and grouping and general finish, but the exhibits were far in advance of former ones, and self-education is apparent all through.

The idea of these shows originated in the seed warehouse of J. J. H. Gregory & Son, Mr. Gregory and his chief clerk Mr. Franklin Reynolds, having induced their employees (many of them girls), to compete one year. The result was so satisfactory that they decided to extend the influence by interesting the general public. Such well directed effort cannot but greatly increase the knowledge of and love for flowers and horticultural pursuits among the people, and is worthy of imitation and encouragement in all directions. Mr. E. E. Woodman of Danvers was one of the judges.

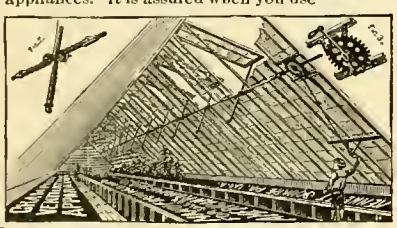
Correction.

On Page 123, last issue, in account of Massachusetts Horticultural Society's exhibition, Dracæna indivisa *varieties* should read Dracæna indivisa *variegata*.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

UNIFORM VENTILATION

is something you cannot secure with all ventilating appliances. It is assured when you use



The Champion Ventilating Apparatus

SIMPLE, DURABLE, EFFICIENT, CHEAP.

☞ Circular is yours for the asking. Address

AMERICAN ROAD MACHINE CO.,

. . . . Kennett Square, Pa.

Mention American Florist.

EVANS' IMPROVED

CHALLENGE VENTILATING APPARATUS

Write for Illustrated Catalogue.

QUAKER CITY MACHINE WORKS, Richmond, Ind.

FLORISTS' HOSE,

Made by E. W. Holt, member of the Society of American Florists.

Goodyear Rubber Store,

2 W. 14TH ST. NEW YORK.



Mention American Florist.

THE "LOCKLAND" Sash Bars

ARE ALWAYS SATISFACTORY.

This cut represents our improved Clipper Bar for Butted Glass roof—putty to be used under glass only.

GUTTER MATERIAL, RIDGES, SASH, ETC.

The finest CLEAR CYPRESS used.

Write for circulars and estimates. . . .

LOCKLAND LUMBER CO.

. Lockland, O.

"Standard" Flower Pots.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Pottery Company,

BRANCH WAREHOUSES: 713, 715, 717 & 719 Wharton St., Philadelphia, Pa.
Randolph Ave. and Union St., Jersey City, N. J.
Jackson Ave. and Pearson St., Long Island City, L. I.

STANDARD FLOWER POTS

Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.

A. H. HEWS & CO., N. Cambridge, Mass.

Standard Flower Pots.

We wish to notify the trade that this summer we have made great improvements in machinery and have also discovered a better clay, so that we are now manufacturing FLOWER POTS that can't be beat. We have the assurance of a host of our customers, that our make are the best in the market. Bear in mind that freight rates are very low from this point, and we claim that our way of packing saves you freight charges. Send for circulars, or we will send you figures on any quantity you want.

SIPFLE, DOPFFEL & CO., SYRACUSE, N. Y.

STANDARD FLOWER POTS.

OLD RELIABLE MAKE OF

ELVERSON, SHERWOOD & BARKER.

Write for Catalogue and Price List.

PITTSBURGH CLAY MFG. CO. New Brighton, Pa.

STANDARD FLOWER POTS

Our new **Pottery,** new **Machinery,** the very **best Clay** in the **Country,** and our new **Patent Kilns,** all combined, make the **best Standard Pot in the market.** Send for price list.

PARMENTER MF'G COMPANY,

GEORGE MESSINGER, Manager. East Brookfield, Mass.

S. A. F. REPORTS.

GOOD READING CHEAP.

I have on hand a number of surplus copies of the reports of proceedings at the New York, Buffalo and Boston Conventions of the Society of American Florists. All parties wishing to procure copies of either or all of these can have them by applying and enclosing 25 cents in stamps for each, as long as they last.

Address WM. J. STEWART, Sec'y,
67 Bromfield Street, BOSTON, MASS.

VICTOR SPRAY PUMP.

The most wonderful pump ever invented. Requires no foot-rest or support. Send for prices.

HENION & HUBBELL, 55 N. Clinton St., Chicago, Ill

STANDARD FLOWER POTS.

Price List.

2 -inch,	Per 1000	$3.25	7-inch,	Per 100	$ 3.50
2¼-inch,	"	3.50	8-inch,	"	5.00
2½-inch,	"	4.00	9-inch,	"	7.50
3 -inch,	"	5.00	10-inch,	"	10.00
3½-inch,	"	7.25	11-inch,	"	15.00
4 -inch,	"	9.00	12-inch,	"	20.00
5 -inch,	"	13.80	14-inch,	"	40.00
6 -inch,	"	22.00	16-inch,	"	75.00

Terms cash, f. o. b. Address

HILFINGER BROS. POTTERY, Fort Edward, N. Y.

WHEN writing our advertisers please use one of your printed business letter heads or enclose your business card.

TO TAKE PLACE OF WIND MILLS

HOT AIR PUMPING ENGINES

A Windmill

Is unreliable because it depends upon the elements for its power; hydraulic rams also depend upon favorable conditions and waste as much water as they secure. Steam pumps require skill and hand pumps demand labor and time. The

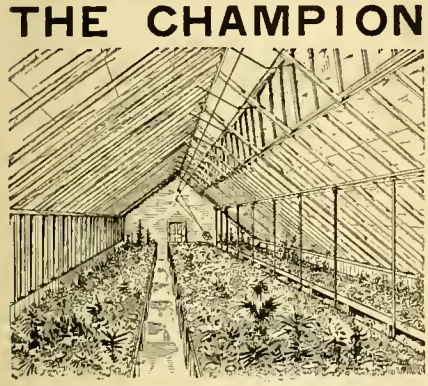
DE LAMATER-RIDER OR DE LAMATER-ERICSSON Hot-Air Pumping Engines

are especially designed for pumping water, and from shallow streams or any kind of well. They are simple, safe and reliable, require no steam and have no valves. They require very little heat to operate them, and can be arranged for any kind of fuel.

Send for illustrated catalogue to

THE DE LAMATER IRON WORKS,
87 South Fifth Av.,
NEW YORK, N. Y.

THE CHAMPION



Automatic Ventilator.

The cheapest, easiest to operate, and by far the best machine in the market. Don't buy a Ventilator until you have seen my illustrated descriptive circular, which will be sent you free, giving prices, etc. Also **Champion Soil Pulverizer and Sifter.**

Address, **E. E. WOLF,**
Box 114. SPRINGFIELD, O.

CUTS!



Wood Engraving,
Zinc Etching,
Half-Tone,
Wax Engraving, Photo-Engraving,
Designing.

MANZ & CO.,
183 Monroe Street, CHICAGO. ENGRAVERS.

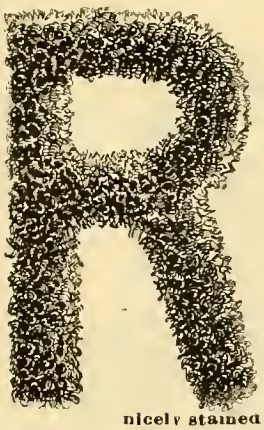
J. N. STRUCK & BRO.

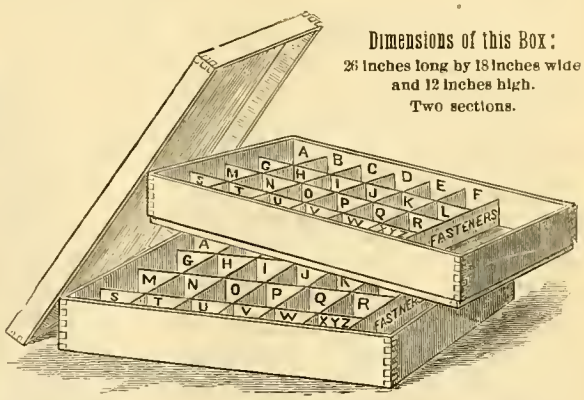
Manufacturers of

• CYPRESS •

Greenhouse Material,

LOUISVILLE, KY.





Dimensions of this Box:
26 inches long by 18 inches wide and 12 inches high.
Two sections.

With an order for 500 letters, we furnish a box made of wood nicely stained and varnished, such as is represented in the cut.

BOSTON FLORIST LETTER CO.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1½-in and 2-in. 2.00 per 100. Patent fastener with each letter.

OUR NEW SCRIPT LETTER, $4.00 per 100.

N. F. McCARTHY, Treas. & Mangr. | Address 13 Green St., **Boston, Mass.**

Address all correspondence to 1 Music Hall Place.

We have a new **FASTENER** which we consider a decided success. Any customers having old style fasteners which they wish to exchange, can do so without additional cost by writing us.

AGENTS.

Marschuetz & Co., 25 N. 4th St., Phila., Pa.
A. Rolker & sons, New York.
F. E. McAllister, 22 Dey St., New York.
A. D. Perry & Co., 33 Warren St, Syracuse, New York.
Ernst Kaufmann & Co., 113 N. 4th St., Phila.
H. Bayersdorfer & Co., Philadelphia, Pa.
A. C. Kendal, 115 Ontario St., Cleveland, O.
J. A. Simmers, Toronto, Ont. Agent for Canada.
E. H. Hunt, 79 Lake St., Chicago, Ill.
Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.
H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O
T. W. Wood & Sons, 6th and Marshall Sts. Richmond, Va.
Jas. Vick's Sons, Rochester, N. Y.
C. A. Kuehn, 1122 Pine St., St. Louis, Mo.
D. B. Long, Buffalo, New York.
C. F. Huntington & Co, Indianapolis, Ind.
Z. De Forest Ely & Co., 1024 Market St., Philadelphia, Pa.

These Letters are handled by all the Wholesalers in Boston.

WARNING.

A party in Williamsport, Pa., named Chas. E. Montgomery, is making and offering for sale letters which are an infringement upon our patent, and are much inferior to those manufactured by us. We have notified them of suits unless they desist at once. Buy no letters except through our authorized agents.

BOSTON FLORIST LETTER CO., 1 Music Hall Place, Boston, Mass.

We have secured the American Agency for

Fenster Pappe,

A new German substitute for covering cold frames, etc., in place of glass, is very strong and durable, and sufficiently translucent for all plant life, besides a good protection against light frosts. Not affected by the changes of the elements; does **not** shrink like parchment paper. Endorsed by German and Dutch growers and nurserymen. Comes in rolls, 36 inches wide and about 110 yards long.

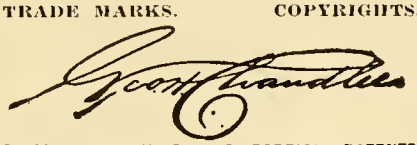
Price per Original Roll, $9 00, F. O. B. Cars N. Y.

DIRECTIONS.—Stretch and nail on to the sash bars, then saturate thoroughly with linseed oil. Varnish when dry, and your unbreakable sash is ready.

First Shipment Just Arrived. We Solicit a Trial.

August Rölker & Sons, New York, P. O. Station E.

TRADE MARKS. COPYRIGHTS.



SOLICITOR OF U. S. AND FOREIGN PATENTS,
Atlantic Building, Washington, D. C.
(Send sketch or model for free examination as to patentability.)

THE PERFECT DRAINAGE

BENCH TILE

For circulars, etc., address

W. P. Wight, Upland Green Houses,
Send your business card. MADISON, N. J.

Send orders for . . .
CLEAR CYPRESS
Greenhouse Material
from bottom of gutter up.
Correspondence solicited. Estimates cheerfully furnished.
LYMAN FELHEIM, ERIE, PA.

CATALOGUE PRINTING. ELECTROTYPING.

Done with expert ability for Florists Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.,
HARRISBURG, PA.

Mention American Florist.

MOSS.

CHEAP FOR WINTER. . . .

Fine Moss for Funeral Work and Orchids. 60c and 75c. per pound.

A. K. Savacool,
EAST STROUDSBURG, PA.

SMILAX AND ASPARAGUS
TRAINED ON GREEN
SILKALINE
Are in the best possible condition for the market.
For particulars address
JOHN C. MEYER & CO,
289 DEVONSHIRE ST., BOSTON, MASS.

"Something Important."

Mr. Geo. Thomas of New Orleans sends us a circular with the above heading, which he believes entitled to a place in our humorous column. He says: "It was sent us by an enterprising colored merchant of this city and I send it to you as going to prove that we are trying to keep in line with our go-ahead northern brethren." Following is the body of the circular:

Why do human beings compare with varieties in considering on some plants? I am compelled to agree with the subject. But yet some plants outlive people, because they are cared for in the beginning, while many neglect to care for themselves. The care of a plant is just the same as the care of a child. In fact, all care is through the mother. and the care of the plant is through the mother. You will ask, who do you call the mother of a plant? Some people do not consider that a plant has a mother. But I say it has a mother in the beginning, and if it had not a mother you would not expect the plants. It has a kind mother who gives the same care as a mother gives her child.

There are plants of different varieties, and the Mother Soil is of different descriptions. If the mother of the Plant is poor and she is unable to give proper nourishment to the plant it is sickly and needs proper nourishing attention. The same with human beings. The soil sometimes gets poor, thin and packed tight. This causes the smother of the plant and if you don't give it proper treatment it will die. In the first place you must have good soil; see that they have proper drainage and not exposed too much to the cold. Can we do without these beautiful sights to our eyes. The five principal senses answer no! The two important senses are in varieties, that is, seeing and smelling. How elegant it is to enhale the fragrance of the atmosphere when we are passing to and fro, which goes into the atmosphere. God gave us the five senses—hearing, seeing, tasting, feeling and smelling—and when we are without one of them we are miserable. The same is with a plant; the senses are given to plants and the beginning is from the mother, which is the Soil.

There are many kinds of plants that live in dead wood and rocks and in many different kinds of soil. What can anyone expect of a plant without cultivation? We need cultivation. It is just the same with a plant.

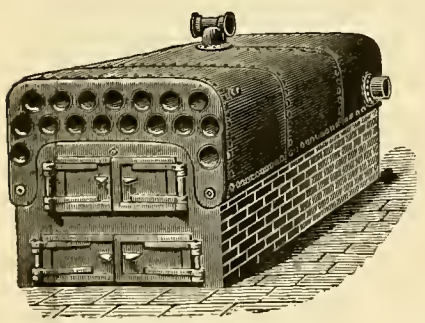
I am prepared to furnish Soil for any variety of every description and will prove it to be the same. I always have different sorts of Soil, such as Leaf mould, Coffee Grounds, Sagnum Moss, Wood Mould and Peat.

ESTABLISHED 1854.

DEVINE'S BOILER WORKS.

THE FLAT TOP TYPE

Wrought Iron Hot Water Boilers



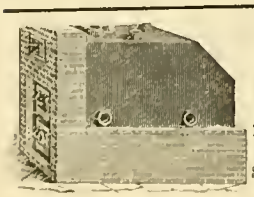
Capacity from 350 to 10,000 feet of four-inch pipe. SEND FOR NEW LIST.

FRANK DAN BLISH, Att'y,

OFFICE, 189 STATE STREET.

WORKS, 66th & WALLACE STREETS.

CHICAGO.

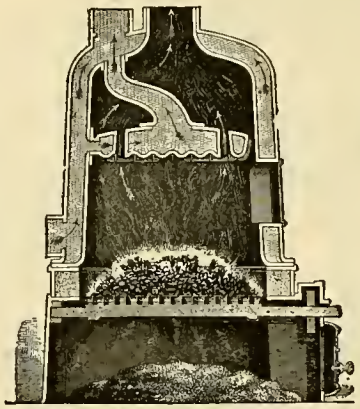


GREEN-HOUSE HEATING,

MYERS & CO.

1518 & 1520 S. 9th St., PHILADELPHIA.

Send for catalogue and price list.



JOHN A. SCOLLAY,

74 & 76 MYRTLE AVE.,

BROOKLYN, N. Y.

GREENHOUSE HEATING

— AND —

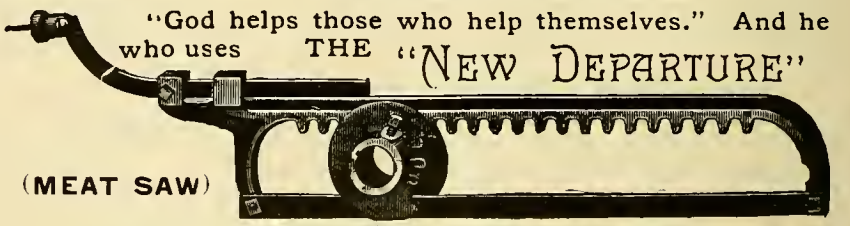
Ventilating Apparatus.

Patentee and Manufacturer of

HOT WATER BOILERS,
GREENHOUSE PIPE,
PIPE FITTINGS,
VALVES, TANKS, ETC.

☞ Estimates of cost given, and Illustrated Catalogue furnished on application.

"God helps those who help themselves." And he who uses THE "NEW DEPARTURE"



(MEAT SAW)

VENTILATING APPLIANCE

helps himself and those who help him in his labors, and is therefore doubly blessed. Send for price and description.

J. D. CARMODY, Evansville, Ind.

Or call and see the man and machine at his greenhouse office, located on the lawn west front of Horticultural Building, World's Fair grounds, Chicago, Ill.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO,

NATURAL GAS MADE GLASS

FOR GREENHOUSES.

Write for latest prices.

FRENCH GLASS For CONSERVATORIES, ROSE HOUSES, Etc. Etc.

VANHORNE, GRIFFEN & CO.,

Importers of PLATE and WINDOW GLASS. Manufacturers of BENT GLASS and FRENCH MIRRORS.

131-133-135-137 FRANKLIN STREET, NEW YORK.

Note—Imported Glass is used in the best grade of Greenhouse building.

GLASS

which is absolutely perfect for modern greenhouse construction.

ROCK BOTTOM PRICES.

Send for Estimate. Satisfaction Guaranteed

REED GLASS CO.

65 WARREN STREET and
46, 48, & 50 COLLEGE PLACE,

—NEW YORK CITY.—

THE GREAT **ANTIPEST.**

For particulars, see next week.

R. W. CARMAN, GEN'L AGT.,

291 Amity Street, FLUSHING, Queens Co., N. Y.

KROESCHELL BROS.

IMPROVED

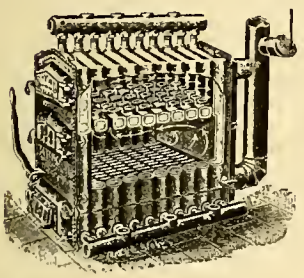
Greenhouse × Boiler,

41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around front, sides and back). Write for information.

ROYAL HEATERS
TRADE MARK
UTICA, N.Y.



HART & CROUSE,
UTICA, N. Y.

Increase Your Business

by fostering an interest in plants and flowers among the people in your vicinity. You can best do this by getting subscribers to

GARDENING . . .

which tells people how to get the most satisfaction out of their gardens, and stimulates them to enlarge and extend their gardening operations.

$1.00 A YEAR is the subscription price of this paper, which is issued twice a month, is handsomely and truthfully illustrated, is thoroughly practical, absolutely free from wind and gush and grinds no axes for anyone.

SPECIAL LOW RATE to florists who will act as agents. We want an agent in every city and town in America. Write for terms now to

THE GARDENING CO.
Monon Building, CHICAGO.

HAIL LOCK THE DOOR BEFORE THE HORSE IS STOLEN. DO IT NOW.
JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

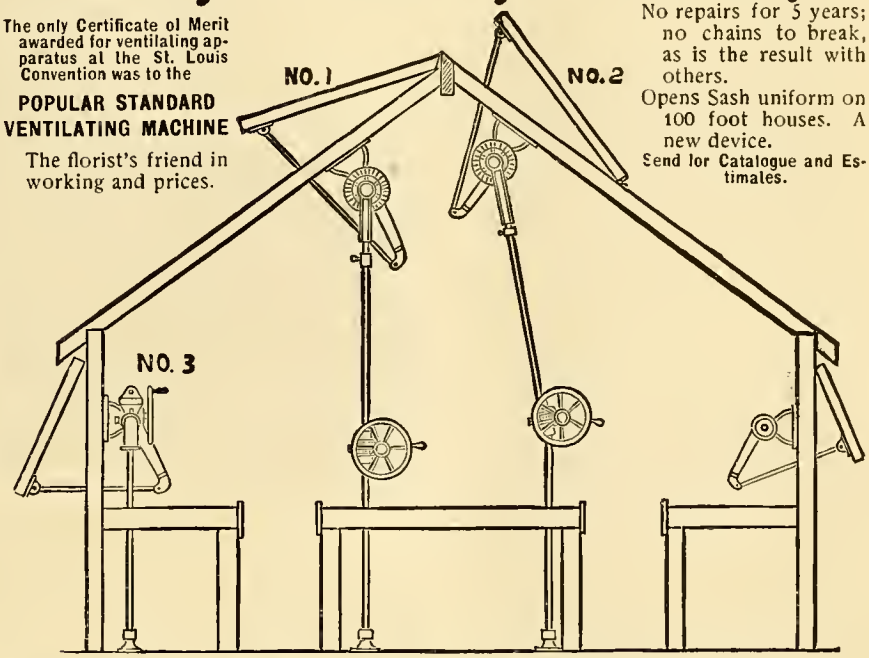
Mention the American Florist when writing to advertisers on this page.

Victory! Victory! Victory!

The only Certificate of Merit awarded for ventilating apparatus at the St. Louis Convention was to the

POPULAR STANDARD VENTILATING MACHINE

The florist's friend in working and prices.

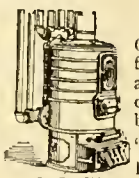


No repairs for 5 years; no chains to break, as is the result with others.
Opens Sash uniform on 100 foot houses. A new device.
Send for Catalogue and Estimates.

E. HIPPARD, YOUNGSTOWN, OHIO.

Gurney

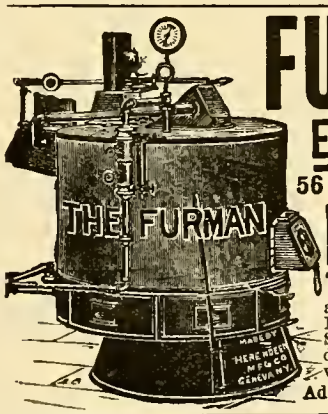
HOT WATER HEATERS AND RADIATORS FOR HEATING Dwellings, Public Buildings, Etc. BY HOT WATER CIRCULATION.


GURNEY.

The marked superiority of the Gurney Heaters which is manifested in all severe trials, is now a matter of history. There is no question about their being the best. For reasons, see our book "*How Best to Heat Our Homes.*" It is free.

Gurney Hot Water Heater Co.
HEAD OFFICE:
163 Franklin St., Boston, Mass.
BRANCH OFFICE:
59 Wabash Ave., Chicago, Ill.
SELLING AGENCIES:
Johnson & Co., 71 John St., New York.
J. C. F Trachsel, 246 Arch St, Philadelphia.


DOUBLE CROWN.



FURMAN BOILERS

Economical — Substantial — Safe.

56 STYLES AND SIZES—BURNS HARD OR SOFT COAL.

Modern Hot-Water Heating

These Boilers have a high reputation for Stannchness, Durability and Safety, and are **GREAT COAL SAVERS.** Minimum Friction and Maximum Velocity only obtained by **VERTICAL WATER CIRCULATION.** Send for new 150-page book giving full particulars and a great deat of valuable information on modern Heating and Ventilation, with plans and tables for correct hot-water work. Mailed free.
Address **HERENDEEN MFG. CO.,** 26 Vine Street, **GENEVA, N. Y.**

ESTABLISHED 1866.

FLORISTS WIRE DESIGNS

MANUFACTURED BY

N. STEFFENS

335 EAST 21ST ST. NEW YORK.

D. H. ROBERTS,
159 & 161 South Fifth Ave., New York.
NATURAL GAS MADE GLASS,
for Rose Houses, Conservatories, etc., etc.
Look at our World's Fair Exhibit in Horticultural Building.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

FLORAL DESIGNS
The Cut Flower Worker's Friend. Fine book of 160 pages. Send **$3.50** for it, to
J. HORACE McFARLAND, Harrisburg, Pa.

Please mention the AMERICAN FLORIST every time you write to an advertiser.

Index to Advertisers.

Adv. Rates, etc 152
American Boiler Co ..164
American Road Mach Co..... .160
Andorra Nurseries.....157
Art Floral Co.....158
Baller F A 156
Barnard W W & Co....155
Bay State Hdw Co.....164
Bayersdorfer H & Co ..159
Berger H H & Co..... ..155
Boehmer L & Co 157
Bonsall Jos E & Son ...153
Boston Letter Co 161
Boynton W D.....158
Brackenridge & Co.....156
Brauer & Richter.... 156
Brown & Canfield..... ...151
Burns & Raynor.....153
Burrow J G.....158
Burton John..... 151
Butz Paul & Son.....158
Calvert F & Son.....157
Carman R W..... 162
Carmody J D..... 162
Chandlee Geo H 161
Corbrey T J... 155
Crabb & Hunter.....150
Creighton Geo 156
Deamud J B & Co.....152
De Cock Jules.....159
Degner Wm.....156
De Lamater Iron Wks.161
De Smet Louis.....158
Devine's Boiler Wks...162
Dillon J L.....151
Dorner Fred & Son.....150
Dreer H A 157
Eger Wm C.....156
Elgin Rose Co.....159
Elliott W H.....152
Ellison Wm.....153
Ely Z De Forest & Co...155
Engle W J 156
Felheim Lyman.....161
Forstermann L 150
Gardening Co The.....163
Gibson J C.....159
Gonzalez & Co..... 154
Goodell L W.....150
Goodyear Rubber Store 160
Griffith N S..... 151
Guillaume Louis A ... 159
Gurney Heater Co 163
Hall Ass'n.....163
Hammond Benj.....159
Hancock Geo 150
Hart James.....153
Hart Michael A.....153
Hart & Crouse.....163
Hartford H E.....152
Heinl Jos.....150
Henion & Hubbell.....160
Herendeen Mfg Co.....163
Herr Albert M.....156
Herrmann A 159
Hews A H & Co 160
Hilfinger Bros.....160
Hill E G & Co..... 158
Hippard E.....163
Hitchings & Co.....164
Hooker H M Co 162
Horan Edw C. 153
Hulsebosch Bros 155
Hunt E H..... 153
Hunt M A.....151 158
Hunter Frank D.....153
Jackson James.....150
Jennings E B.....151
Joosten C H.....155
Kemble Floral Co 157
Kennicott Bros.....153
Koffman E 152
Kroeschell Bros 162
Kuehn C A.....153
Lampert J J.....150
La Roche & Stahl.....152
Lippincott Miss C H...159
Lockland Lumber Co...160
Long Dan'l B.....153
Lonsdale Edwin.....158
Lord & Burnham Co...164
McCarthy N F & Co....153
McFarland J H.....163
McFarland J H Co.....161
Madsen H..... 158
Manz J & Co.....161
Marion Greenhouses...150
Marschuetz & Co.....159
Mandel Jacob 157
Meyer John C & Co ..161
Michel Plant & Bulb Co 157
Millang Bros.....153
Miller Geo W.....151
Moffatt G J.....155
Moninger Jno C 164
Myers & Co.....162
Nanz & Nenner.....157
Niles Centre Floral Co 153
Ouwerkerk P.....158
Parmenter Mfg Co.....160
Peck & Sutherland.....153
Pennock C J..... 151
Pennock F M. 151
Pennock Sam'l S.....152
Pierson A N.....151
Pierson F R Co.....155
Pittsburg Clay Mfg Co.160
Prince A G & Co 153
Probst Bros Floral Co..159
Pye & Mueller.....164
Quaker City Mach Co..160
Randall A L 153
Reck John 158
Reed Glass Co.....162
Rennison J C 159
Roberts D H.....163
Roberts James E.....150
Roehrs Theo.....153
Rolker A & Sons155 159 161
Rupp John F.....156
Russell S J.....159
Sander & Co 159
Saul John... 157
Savacool A K.....161
Schiller Ludwig 158
Scollay John A. 162
Scott Alex.....158
Shelmire W R.....150
Sheridan W F.....153
Sherwood Hall Nur Co.157
Siebrecht & Wadley....159
Siptle, Doptfel & Co....160
Situations, wants.....150
Smith George..... .150
Smith Nathan & Son...151
Soltau Chr.....156
Stahl Adelph 156
Starr Chas T.....151
Steffens N.....163
Stewart W J Sec'y.....160
Stott Garden Imp Co...159
Struck J N & Bro.....161
Sunderbruch H L..152 153
Tracht J A & Son 151
Tricker Wm..... 157
Van Horne Griffen & Co 162
Vaughan J C..... 154
Vick & Hill.....151
Weathered's Sons T W.164
Welch Bros.....153
Whilldin Pot Co ..160
Whitehead Geo B... ..151
Wight W P..... 161
Wisconsin Flower Ex..155
Witterstaetter R.....158
Wolf E E 161
Wood Bros.....151
Young John.....153
Zirnglebel D.....156

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

CYPRESS GREEN HOUSE MATERIAL

CLEAR

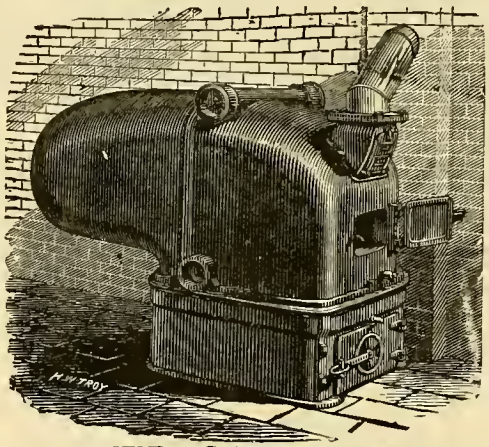
SASH

BARS

HOT BED AND VENTILATING SASH

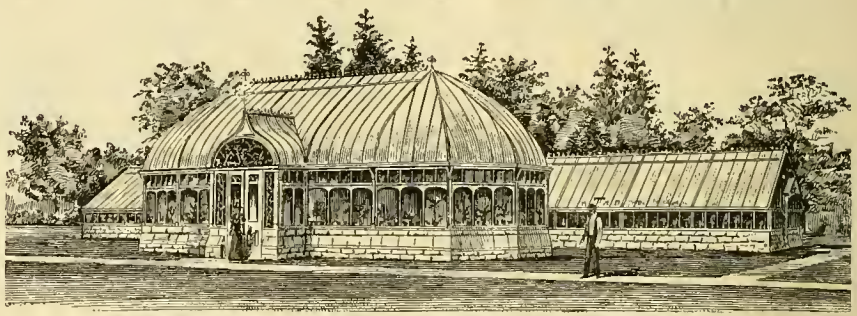
JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

GREENHOUSE HEATING AND VENTILATING
Horticultural Architecture and Building.



HITCHINGS & CO.
Established 1844.
233 Mercer St., New York.
FIVE PATTERNS OF BOILERS.
NINTEEN SIZES.
Perfect Sash Raising Apparatus.
Rosehouses, Greenhouses, Etc., of Iron Frame Construction, Erected complete, or the Structural Iron Work shipped ready for erection.
Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Top.
SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.

LORD & BURNHAM CO.
Horticultural Architects and Builders,
STEAM AND HOT WATER HEATING ENGINEERS.
☞ Plans and estimates furnished on application.



Front view of a portion of our exhibit at the World's Fair.
. . . SEND FOUR CENTS POSTAGE FOR ILLUSTRATED CATALOGUE. . . .
LORD & BURNHAM CO., Irvington-on-Hudson, N. Y.

STEAM · AND · HOT · WATER · HEATERS
FOR
GREENHOUSE HEATING
156
DIFFERENT SIZES.
American Boiler Company.
BOSTON, 195 Ft. Hill Square. NEW YORK, 94 Center St. CHICAGO, 34-36 Dearborn St. DENVER, Mining Exchange Bldg. SAN FRANCISCO. 80 Crocker Bldg.

THOS. W. WEATHERED'S SONS,
INCORPORATED.
Horticultural Architects and Hot Water Engineers
Send for Catalogue enclosing 4 cents in stamps.
No. 244 Canal St., NEW YORK CITY.

TOBACCO STEMS AND DUST.
STEMS—In 100 lb. bales, $1.00. In 500 lb. bales, $4.00. By the ton, $10.00.
TOBACCO DUST—A most valuable insecticide for Violets, Roses, Chrysanthemums, etc; also for fumigating; in 100 lb. lots, $2.00, f. o. b.
Pye & Mueller,
P. O. Box 1066. KINGSTON, N. Y.

OUR
Sash Lifter AND Hinges
will do the work and cost you less than any other. Send your name and address and we will mail you description and price.
BAY STATE HARDWARE CO.
272 Freeport Street, BOSTON, MASS.

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol IX **CHICAGO AND NEW YORK, SEPTEMBER 28, 1893.** **No. 278**

THE AMERICAN FLORIST

Copyright 1893, by American Florist Company. Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.
322 Dearborn Street, Chicago.

Subscription, $1.00 a year. To Europe, $2.00.

Address all communications to

AMERICAN FLORIST COMPANY,
P. O. Drawer 164, CHICAGO.

Eastern Office: 67 Bromfield St., Boston.

SOCIETY OF AMERICAN FLORISTS.

WM. R. SMITH Washington, D. C., president; PROF. WM. TRELEASE, St. Louis, Mo., vice-president; WM. J. STEWART, 67 Bromfield St. Boston, Mass, secretary; M. A. HUNT, Terre Haute, Ind., treasurer.

The new officers, to be installed Jan. 1, 1894, are: J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; secretary and treasurer the same as for 1893. The next annual meeting will be held at Atlantic City, N. J., August, 1894.

CONTENTS.

Cannas 165
Roses—Diseases attacking 166
—The rose garden at World's Fair (illus). . . . 167
September color in hardy plants 167
Carnations—Seasonable hints 168
—An unfortunate blunder 168
Chrysanthemums—Seasonable hints 168
—The tarnished plant bug (illus) 168
—Chrysanthemums affected by tarnished plant bug (illus) 169
—Chrysanthemum notes 169
—Chrysanthemum shows 170
The World's Fair 170
—Awards at the World's Fair 171
—Exhibit of hardy plants at World's Fair (illus) 171
Killing grubs in soil 171
Philadelphia 172
New York 172
Chicago 172
Boston 172
Basin of aquatics at the World's Fair (illus) . . 173
Old fashioned garden at World's Fair (illus) . . 173
Mass. Hort. Society 174
Baltimore 174
St. Louis 174
Mushrooms and toadstools 174
News notes 174
Pittsburg 176
The seed trade 178
News notes 178
Toronto 180
Recent legal decisions 182
The edible puff ball 184
Minneapolis 186

MORRIS, ILL.—The Morris Floral Co. has started into business here and built a greenhouse 20x100. A. Mittig is manager.

OWING to illness, Mr. Wm. Scott, of Buffalo, was unable to prepare his usual batch of seasonable notes for this week's issue. He will, in all probability, be on deck again next week.

WHEN SENDING us newspapers containing items you wish us to note please do not fail to distinctly mark the item so it can be easily found, as we can not spare the time to hunt through the mass of papers sent us for unmarked items.

Cannas.

The wonderful advance made in these flowers within a few years, and the large number of varieties already on the market, will cause far-seeing growers to study the ideal for the canna of the future, with a view towards working in that line. It would show a lack of discrimination to keep on producing new varieties, unless they show enough advancement to give them permanence, and indeed there may be many new forms in which they show such a slight advance that their retention, under new names, would only lead to confusion, though such plants would be of great value as breeders.

During a recent interview Mr. Fred Kanst, superintendent of South Park, Chicago, gave us some valuable ideas on this subject. Mr. Kanst has been studying these cannas very closely in the grounds under his care, and being appointed a judge of the canna exhibit at the World's Fair he has naturally given a good deal of attention to the display there. It is Mr. Kanst's opinion that one great object, to be kept in view in growing new varieties, is to produce broader petals. Where the petals are very wide they are likely to overlap a little, and this gives them a greater firmness to resist wind. The flowers are quite tender, as a rule, and where the petals are long and narrow, freely separated, they twist about badly and soon get a battered appearance. Mme. Crozy, which is still one of the very best we have, has this width, the lateral petals often being 1½ inches across. Another excellent thing characteristic of Mme. Crozy, which should be striven for in new varieties, is its habit of making several lateral spikes. By the time the main spike has finished blooming the laterals are in fine condition, and the old main spike can be cut away, while varieties making a single straight stalk, without branching, do not keep such a continuous show of bloom. A strong, robust habit and freedom of bloom must also be secured; some fine sorts, which now take the eye in the World's Fair display, have done so little early in the season that their value was lost. The ideal canna, according to Mr. Kanst's observation, should have a dwarf, compact habit of growth, flower stalks held well up, yet not long enough to appear spindling, flower spikes branching and erect; flowers rather closely set, with very wide firm petals. Judging by this there are few yet superior to Mme. Crozy, and it is fair to take that as a standard. It has a strong, dwarf growth, and is a constant bloomer.

Florence Vaughan. This Mr. Kanst considers the best of its coloring. It has a very strong habit, is a free and continuous bloomer, and is very striking in color. The width of its petals ranges from one to one and one-half inches, and the color stands well in an exposed situation. Indispensable.

Capt. P. de Suzzoni. The same type as the preceding, but not so striking, nor are the flowers so large. But it is a free and constant bloomer, beginning to flower early, and continuing through the season, and excellent for bedding in masses.

Alphonse Bouvier. This beautiful red is often criticised for one defect, if defect it is; its spike has a slightly drooping tendency. But the flowers are good size, beautiful color and freely produced; it keeps up a constant succession of bloom from the beginning to the end of the season. It is one of the most valuable varieties for continuous effect; it should be watched through the whole season to appreciate its merits.

J. C. Vaughan. This has a very brilliant orange vermilion flower and handsome bronze foliage. Very good. The flower has a rich satiny lustre, making a fine contrast with the foliage.

Egandale. Similar in habit to J. C. Vaughan, but foliage much darker. Flower a soft currant red. Excellent in a collection.

J. D. Cabos. Dark foliage. Flower a very rich orange, tinged with apricot. Good color and a very free bloomer.

Paul Marquant. This is synonymous with Gustave Senneholz, but the name Marquant appears to have the right of priority. Foliage green; flower salmon, with long petals. It is a free bloomer, but the petals are too narrow, and consequently flimsy.

Paul Bruant. Dwarf habit, foliage green, edged with purple. Flower spikes thrown up well above the leaves, flowers orange scarlet, satiny in texture. A free bloomer and good bedder.

Comte Horace de Choiseul. Very dwarf, with close compact habit and good green foliage. Flowers light crimson, in thick spikes, on such short stalks that they are only just even with the leaves. However, the plant itself is so very dwarf and compact that the flowers show well among the leaves.

Francois Crozy. This grows to a height of about three feet. It is a very free bloomer, with orange flowers, but the texture of the flowers is thin, and there are others better.

President Carnot. Foliage dark, flower deep scarlet, inclining to crimson. Does not flower freely enough, and is excelled by others.

Explorateur Crampbel. A good red, but does not flower freely enough to be satisfactory.

Secretary Stewart. Flower bright garnet, foliage green. This is a late bloomer; it has done very little all summer, but is making a good show now. Not so good as others, on account of this defect.

Miss Sarah Hill. This has a good red flower, though not very large, and it is now blooming freely. But it appears very

late here, and has done very little flowering earlier. But with all these cannas, what is said of them here in Chicago may not be the case in other places; good judges who have seen the variety now under discussion in the east say it has bloomed very freely and made a magnificent show.

Admiral Gervais. Flower bright scarlet, bordered with yellow. Dwarf, somewhat after the style of Mme. Crozy, but not so good. Others better.

Charles Henderson. A fine red and very robust, good, but too late. It makes a fine show in the fall, but does very little earlier in the season.

Stadtgartner Senneholz. Poor flower and indifferent color.

Statuaire Fulconis. Red flower, with thin, narrow petals, poor.

Baronne de Renowardy. Rosy salmon, overlaid with scarlet. Fair flower, but not remarkable.

Duke de Montenard. Rich orange, spotted cinnamon red, and Duchess de Montenard, bright yellow, spotted with red, are too near alike; the first named is the best of the two. Neither is remarkable, though of fair quality.

Senator Montefiore. Yellow, streaked with scarlet. Bright flowers, of medium size, produced in great profusion; an extremely prolific bloomer.

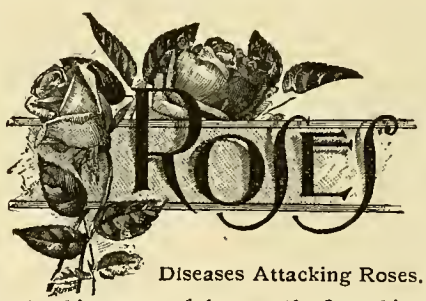
It is only fair to say that the summer at the Fair has been an extremely severe test of these cannas. They are plants which, from their luxuriant growth, require an abundance of food and water. At the Fair the soil is extremely poor, and there was a lack of manure. The situation is very exposed, and the plants have suffered from the dry, sweeping winds prevalent all this summer. This has been very hard on both foliage and flower, and only the most robust sorts could be expected to show to advantage. Still, the severity of the test should be a good guide for the selection of varieties for general use. As Mr. Kanst very justly remarks, it is impossible to judge a variety by seeing it at one period of the season only. It must be watched the whole summer through; some of the varieties making the best show now, in the middle of September, did so little blooming earlier as to be very disappointing.

Among the very newest varieties, not yet in commerce, Mr. Kanst gave high praise to Columbia, a new American seedling. The color is a rich red, the flowers large, with very broad petals, borne closely massed on a large spike, with a tendency to lateral branching. This is better than A. Bouvier, which it resembles in color, and is a decided advance. Another named seedling, not yet out, is Germania. This strongly resembles Mme. Crozy, only the color is crimson rather than scarlet, bordered with yellow. The flower is larger than Crozy, and it may be considered an advance, but its similarity to the older variety is likely to cause confusion.

Among new seedlings known by number only Mr. Kanst mentioned Pitcher & Manda's No. 13, which has handsome glaucous foliage and purple stems; flowers brilliant red, streaked crimson. Fine habit and free bloomer.

J. C. Vaughan has a number of good seedlings under number. Among these is No. 120; it has green foliage, glaucous underneath. Flower orange red, faintly spotted all over with little crimson dots. Thick broad petals and large flowers; a decided advance, and very promising, likely to be valuable. No. 118 was another promising sort, growing about four feet high; it has glaucous green leaves, the stems shaded with crimson. Flowers deep salmon red, shaded with crimson spots over the entire surface. No. 104, with green foliage, has an immense flower, brick red, streaked with crimson. The petals are 1½ inches wide and three inches long. No. 107 has dazzling light vermilion red flowers, with petals 1¼ inches wide; foliage glaucous green. A very good grower, and a promising acquisition.

It will be noted that throughout this list Mr. Kanst lays special stress on increase in size and substance. He deprecates the introduction of varieties showing but a slight improvement over existing forms, believing that far more valuable results would be obtained if these improvements were used in breeding, until some very marked advance was obtained. There are plenty of possibilities in color, but variation in color would mean little without size, substance and constancy of bloom. To sum up, our ideal canna has flowers with petals one and one-half inches wide and three inches long—this has already been reached—it must have a spike with lateral branching, thus insuring prolonged bloom, like Mme. Crozy; it must bloom constantly, like Bouvier, and have a robust dwarf habit. Flimsiness, either in flower or foliage, must be strongly discouraged. Considering the wonderful advances already made, the future of the canna is very brilliant, and it is without doubt the most popular decorative bedding plant we possess.



Diseases Attacking Roses.

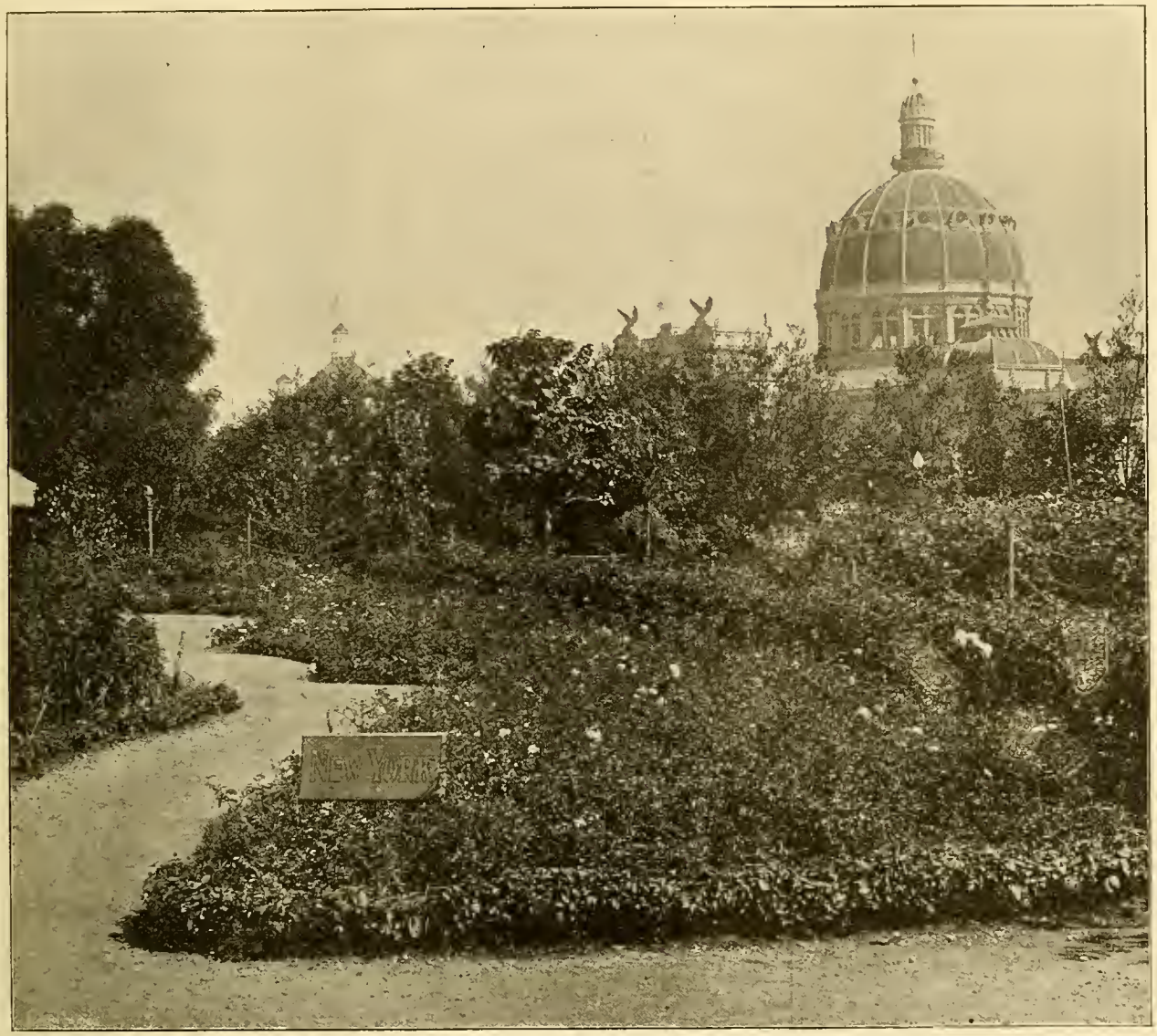
At this season of the year the first thing to consider in this matter is mildew, and a great many people are troubled with it more than there is any occasion for if they attend to the requirements of the case. One of the best preventives of mildew is an abundance of air at all possible times. I mean by this that the temperature should never be allowed to exceed 60° in the morning at this season of the year before air is put on, or, in other words, the moment it begins to rise a small portion of air should be put on and gently increased till all air possible is put on for bright warm days, gradually reducing the amount in the afternoon till finally closed. This keeps the plants hardy and at the same time builds up a very much better constitution than the stewing process to which many growers subject their plants, and which is one of the greatest causes of mildew. I am ready and willing to admit that many cases of mildew are produced when almost the counterpart of the above method is followed, but with a humid, warm atmosphere the rushing on a lot of air to reduce the same is one of the surest producers of this trouble.

Where mildew has and seems persistently to keep a foothold there are several means of keeping it in check. We have now reached the season of the year where it seems to be almost necessary to make a small amount of fire at least on all cool nights, and where the houses are heated with steam a small amount of sulphur and oil mixed and a little placed on the pipes (not a heavy amount enough to kill the plants. but simply a thin coat of this material) will usually keep all mildew in check, because the steam when applied will create sulphuric gas enough in the house to destroy all fungoid growths.

Where hot water is used, if the pipes are valved so that one single pipe can be used in the house (which is really the best way to pipe a house), then that pipe can be made to destroy mildew from this time on; but in cases where no valves have been used in erecting the heating apparatus this is almost impracticable at this season of the year. In the latter case I would advise the application of sulphur to the foliage. Blowing through the ordinary sulphur bellows is the best means of applying it that I know of, and the best time to do it is the early afternoon on a bright sunny day, from three to half past three o'clock. Close the house tight and run up the temperature from 75° to 80°, fill the house full of sulphur dust and the heat will then generate enough gas to destroy the fungus. Care must be taken next morning about the air as usual. This may possibly have to be done twice a week for some three or four weeks till the weather gets cool enough to apply to pipes as above described.

For red spider I gave some two or three weeks ago the best remedy I knew of for the destruction of this pest. Persistent fighting of this miserable little pest is the only salvation from this trouble.

Greenfly or aphis must be kept down by the application of tobacco, and much attention will be required from this time on. Fumigating, i. e., burning of the stems or the smouldering of them by fire, is virtually impracticable, as it will destroy all the color, and many of the buds will be deformed from its application also. Tobacco stems strewn on the floors, such as the walks back and front and center, where such are used, or vaporizing with tobacco juice are effective remedies. The latter method of destroying them I have described at length in previous issues of your paper, but as there may be some new people in the business who have not seen the back numbers of the FLORIST I will describe it again. My method is to have a small steam boiler, say four or five horse power, placed so that pipes from it can be connected through all the houses possible. In my case I have run a 1¼-inch pipe through the center of the shed, branching from this with ½-inch pipe into each house as far as it is necessary, then having two outlets in each house of half inch valves, or double threaded air cocks, on which we screw a coupling with a piece of steam hose attached about two feet long. In the end of the steam hose is tied securely a piece of quarter inch pipe about a foot long. When the house needs vaporizing we take a tub or large pail with a piece of wood across the top, with a hole in the center sufficiently large to put a quarter inch pipe through, put from one to two quarts of tobacco juice (according to the size of the house) in the bottom of the tub and a handful of tobacco stems over it and then insert the piece of pipe at the end of the steam hose, putting the pipe almost close to the bottom. With twenty pounds of steam in the boiler you can fill the house full of vapor so that from the outside it would appear in twelve to fifteen minutes almost as full as if filled with tobacco smoke. Two applications this way will, if carried out properly, destroy every fly in your house, and we have never found it to injure the most



A CORNER IN THE ROSE GARDEN AT THE WORLD'S FAIR.

tender foliage or most delicate flower. The reason we use two outlets in a one hundred foot house is because it can be done so much quicker. There is one thing necessary to bear in mind in this mode of applying it, and that is to have steam enough to do it very quickly. You might take twenty-five to thirty minutes to fill the house and do it three or four nights in succession, but the greenfly would still be in all his glory, as the slow process does not seem to affect him like the quick application. There are several manufacturers of tobacco juice from which it may be procured at the present time, or, if necessary, it can be made by the grower himself, but this is considerable trouble except in large places where they have the means of doing it. *Eternal vigilance* is the only means of keeping ahead of our enemies. J. N. MAY.

WE HAVE received from Mr. Grove P. Rawson, Elmira, N. Y., bunches of blooms of roses of new crop including white La France (Augustine Guinoiseau), Meteor, Mme. Hoste and Mermet. All are exceedingly handsome flowers on long stems clothed with clean foliage, and they stood the long journey admirably, though Mr. R. advises us that they were shipped on a very hot damp day. It is seldom that such all round good flowers are seen at this season of the year. Mr. Rawson certainly understands how to overcome the difficulties of the season in the production of fine roses.

September Color in Hardy Plants.

MR. Stephen Taplin's remark in a recent number of the FLORIST, as to the absence of color in the September garden was undoubtedly pertinent.

As an encouragement to florists to place before the people a few of the enduring expressions of the season let me suggest masses of any of the following plants.

Of course I am aware of the almost universal demand upon the part of the customer for "something to bloom all the time." But these "all the time" plants should be the *setting* of a garden, and not its jewels. They should be foliage, for "all the time" flowers are impossible in all climates, and even if *attempted* are so few in number, as to make the garden of those who employ them nauseating in their monotony.

Interesting gardens are such as show us new forms and combinations.

Just at this time I find here and there all the plants I will name *dotted* in single specimens along a street two miles or more in length. They often occur in back yards out of sight; they produce no effect, for they are not used effectively.

It is for the florist to catch on to the possibilities of these plants, and bring out their beauties in a mass.

Let him plant a group of Aralia Chinensis, Clethra tomentosa, Polygonum orientale, Polygonum sachalinense, Dinsmore rose, Echinacea purpurea, and Plumbago Larpentæ, in well balanced numbers, and see how they will talk to his customers.

Again with a background of sweetbriar, or euonymus or both, let him plant Callicarpa purpurea, Anemone Japonica, Aconitum autumnale, Aster novæ angliæ, Begonia Evansiana, Conoclinum calestinum and helianthemums, and do it with the taste that is born in him, and I am sure surprise will manifest itself that we didn't do it before.

Another group may consist of the common poke in large masses. with Boltonia latisquamæ, Helenium autumnale, Pyrethrum uliginosum, phlox in variety, rudbeckias, and Salvia azurea or Statice latifolia. But I would suggest the late

varieties of Kniphofia, in large clumps, with the green Eulalia gracillima and then a border of Sedum spectabile and Plumbago Larpentæ.

There are lots of other combinations, which I must postpone just now.

JAMES MACPHERSON.



Seasonable Hints.

Our task is now ended. We have rounded out the carnation year, and find ourselves again at the point of beginning. We have endeavored to give a plain statement of our mode of growing this flower, fully conscious of the fact that many growers will not entirely agree with us. But it must be remembered that many circumstances enter into the case, whereby a man must be the judge of his own course of action. Location, lay and shape of the houses, kind of fuel used, manner of heating, nature of the soil, varieties grown, distance from market, personal disposition, etc., etc., are all elements that enter into the problem. He is the most successful grower who studies these various requirements and adapts himself to his surroundings. But the novice must bear in mind there is no large fortune awaiting those who embark in this business. There are risks to run not known in other trades. The margin of profit is close, and depends on many small things to make all ends meet. This is more true to-day than it was ten or twenty years ago. On the other hand there is plenty of hard work, physically and mentally, and considerable capital required. Still there is room for all who really have a love for this delightful occupation.

The carnation is filling a larger space year by year in the world of flowers. It will continue to do so as long as its devotees foster its cultivation and improvement. We are not quite sure, however, that the exhibitions contribute to its popularity. Unfortunately it is misrepresented at the fairs, where it is like the grass of the field "which to-day is and to-morrow is cast into the oven." As an exhibition flower the carnation is not a success, unless some means can be devised to keep them fresh and crisp. If this is impossible then by all means renew the blooms every day if necessary. The multitude will not take kindly to a flower that fades so quickly, however beautiful when first staged. If this false impression could be removed the carnation would at once outrank the rose in popularity. But the initiated need not be told there is no flower more lasting and that will bear more ill usage with impunity by the fireside, at the ball or entertainment, or worn as a corsage on the street. While we accord all due honor to the queenly beauty of the rose, the carnation is the gift of the gods, and destined to be the flower for the million.

Avondale, Pa. W. R. SHELMIRE.

An Unfortunate Blunder.

ED. AM. FLORIST:—On page 124 of the AMERICAN FLORIST, September 14 issue, I notice a communication under the head "An Unfortunate Blunder," signed C. B. The "well known florist" referred to I presume to mean myself. The facts are as follows:

On January 17 I shipped to C. Bliss & Son, Ashtabula, Ohio, a bill of young carnations, including 400 Silver Spray. About the last of August I received the enclosed postal card. [A rather tart one.—ED.] Feeling a little annoyed at receiving such a communication on a postal card I at once replied to the effect that I could not see at this late day why I should be in any way responsible for disappointment in the carnations sent last January, and I could not understand how I could have sent him Mrs. Fisher, as I never had a plant of that variety on my place until late last spring, when I bought a few young plants. I also at same time enquired regarding the stock which formed the other part of the bill.

Since reading the note in the FLORIST above referred to I have examined my books for possibilities, and I find that I bought large numbers of Silver Spray from other growers to help me out with my orders during last winter and early spring, and the only way in which I can account for the "Unfortunate Blunder" is that I have received Mrs. Fisher for Silver Spray and reshipped them for what I had bought.

Now, therefore, as no complaint was made until the stock began to flower it is reasonable to suppose that as far as health, etc. was concerned everything was satisfactory, which leaves a question of the difference in value between 400 flowering plants of Mrs. Fisher and the same number of flowering plants of Silver Spray, and if two or three fair minded florists will state through the AMERICAN FLORIST what the difference is in favor of Silver Spray I will send my check to Messrs. Bliss (provided they are the proper parties) to cover the amount.

Paterson, N. J. H. E. CHITTY.

[We hoped to hear from other parties, not directly interested in the transaction, before expressing an opinion on the subject, which seems to us to be of considerable importance, not in this particular case, but as establishing a precedent by which the results of future similar errors might be adjusted. It is possible that the difference in value of the two varieties noted may be very slight in this case, but presuming the difference to be such as to make the plants practically worthless to the purchaser, how should the difference be adjusted? The seller certainly takes upon himself the responsibility of guaranteeing his stock to be true to name, and a part of his stock in trade is his reputation not only for probity but for accuracy as well. That the error was entirely unintentional does not change the fact that the buyer ordered one thing and got something else that he did not order. And be the unintentional substitute ever so good it does not change the rights of the purchaser or the responsibility of the seller. Further, the average buyer can not be expected to be able to detect the difference before the plants bloom. Therefore, while in such cases the buyer should endeavor to make the best possible use of the plants sent him and thereby reduce the expense of the error to the seller (when convinced that the same was unintentional) he certainly possesses the right to demand that field grown plants of the variety ordered be shipped him freight prepaid, he to return to the seller the plants grown from the young stock of the other variety sent him, the seller to pay the freight on these also. This places him in the position he would have been had the error not been made, and as the error was on the part of the seller he should bear all the expense of accomplishing this result. This in our opinion is the way such errors should be remedied, but we are willing to listen to the views of others.—ED.]



Seasonable Hints.

The plants that have been grown in pots outside if not already in their winter quarters should be housed at once, for at this date frost may be expected any time. These, and those which have been grown on benches where the glass has been removed, are possibly infested with the Tarnished Plant Bug (Lygus pratensis).



TARNISHED PLANT BUG.
[*Five times natural size.*]

This destructive bug procures its food by thrusting its beak or sucker into the tender growth, extracting the sap, thus causing the tips to flag, which may be considered evidence of their presence. The young bugs, which are of a yellowish green color seem to confine their depredations to the apex of the stem, and soon destroy the center, which they repeat upon the laterals as they appear until the plant often becomes a mass of blind growth.

The adults are yellowish brown, about 3-16 of an inch long, and will continue their destructive work upon any part of the plant or flower that is soft and abundant in sap. They puncture with such violence as to distort the growth and ruin promising buds, and later on deface the petals of expanding flowers. The pest is known in nearly all parts of the United States, being more or less destructive to many other plants such as asters, golden rod and sunflowers, and are very partial to carnation blooms. Hand picking is the best remedy I have found, although I have just been informed that pyrethrum insect powder and kerosene emulsion have given satisfactory results; but not having had an opportunity to try either I can not vouch for their efficiency.

This insect is by no means new, and it is to be hoped an effectual remedy may be discovered, for owing to its ravages the growing of chrysanthemums out of doors is very unsatisfactory in many localities.

The early varieties are now well set with buds, and all plants that have not been staked and tied should be attended to at once, so the disbudding can be done before the buds are too large, and by the way, many of the varieties are now ready.



BRANCH OF CHRYSANTHEMUM SHOWING MASS OF BLIND GROWTH INDUCED BY DEPREDATIONS OF THE TARNISHED PLANT BUG.

Do not hesitate about disbudding, for fine blooms can not be had when they are left to nature. Remember one good flower is worth a dozen poor ones, and even though your trade does not seem to require the finest quality you can in a few years create a demand for such by growing a few exhibition blooms as tempters.

Liquid foods should be administered two or three times a week, but always water dry plants before applying. Avoid giving it too strong to make up for any neglect the plants have had in this direction, but on the other hand if weaker than ordinary giving it more frequently, daily if necessary; this will give better results and be safer.

Where chemicals are used as food use ½ ounce of sulphate of ammonia to three gallons of water. Nitrate of potash should be used in the same proportions, while ¾ ounce of nitrate of soda will be safe for this quantity of water.

Keep the aphis well subdued and give abundance of air at all times when the weather is favorable.

ELMER D. SMITH.

Adrian, Mich., Sept. 20.

Chrysanthemum Notes.

For the last few years the best chrysanthemum flowers sent to the Chicago market have come from W. N. Rudd, Mt. Greenwood, Ill. We called upon Mr. Rudd last Thursday and we give below the result of our inquiries as to his methods of culture and varieties most useful for his purposes, namely the production of fine blooms at a profit to the grower.

In yellows he uses Mrs. J. G. Whilldin for early, H. E. Widener for midseason and W. H. Lincoln for late. He also grows a few Col. W. B. Smith and likes it very well. But the great bulk of his stock of yellow sorts are of the three first mentioned.

Among sorts that he has grown and since discarded in favor of the sorts mentioned above are Gloriosum, as he finds Mrs. Whilldin better, and only a little later; Golden Empress, which is pretty but not a clear enough yellow; Rohallion, which lacked in vigor; Gorgeous, good but not needed; Kioto, too long legged and weak in the neck; Mrs. Frank Clinton, not double enough; Ramona, wasn't quite as good as Lincoln and came at same time.

He still grows some of Mrs. Maria Simpson and Mrs. L. C. Madeira. The latter is a pretty thing but he don't care for very late sorts because he needs to get his chrysanthemums out of the way as soon as he can to make room for other stuff.

He was favorably impressed last year with Emma Hitzeroth, Dr. Callandreau and Golden Wedding and is giving them a further trial this year. He has nearly all the new sorts of promise on trial for the first season, but of course cannot speak of them till next year.

In pink sorts Viviand-Morel is his best early. Excellent and Harry Balsley for midseason. He can't say enough in praise of Harry Balsley. It is a grand thing with him and very profitable. Mermaid and Olga are his late pink varieties. He likes Mermaid because it is dwarf and can be grown on the side benches nicely.

The pink sorts he has discarded in favor of the above include E. V. Hallock, not equal to Balsley; T. C. Price, a fine thing but often doesn't open well and is long legged; Elkshorn, a pretty flower when well done but a poor keeper and shipper; Ada Spaulding, too small with him and there are enough equally good and better; Miss Mary Wheeler, a beautiful thing and discarded principally because he had too many pink sorts; Miss Mary Morgan, too small; Violet Rose, a muddy color; Lilian B. Bird, not reliable and apt to come malformed and even when it comes good it seems impossible to get it to market without sustaining injury; Edward Hatch, color not decided enough; Exquisite, preferred Excellent which had all its good qualities and seemed better in some respects; Frank Thompson, a back number; Roslyn, fine thing but color too deep; Louis Boehmer, color not bright enough though still the best of the hairy type; Waban, a fine show flower but not profitable as a cut flower.

Pink sorts on trial second season and favorably impressed with are Aristine Anderson (early) and W. N. Rudd. He has nearly all the new pinks but speaks of none that he has not given at least one year's trial.

In whites for early Ivory stands at the top, and more than head and shoulders over any other. He considers it the nearest to the ideal of any chrysanthemum of any color. And it is equally valuable for pot plants as for cut flowers. No other white can touch it for any purpose in his experience. For midseason Domination and Minnie Wanamaker are his favorites. For a trifle later he uses Mrs. J. Jones and for latest Christmas Eve.

Among white sorts that he has discarded in favor of the above are Elaine, earlier than Ivory but not nearly so good; L. Canning, an excellent sort but not so good as Domination and Wanamaker; Diana, a back number; Mrs. Alpheus Hardy, don't know how to grow it, Mons. Scypere, a beautiful flower but don't sell; Flora McDonald, not a good white; Mountain of Snow, not so good as Christmas Eve; Adirondac, a back number; Jessica, they do it fine east but it is no good here; Mrs. Louise Leroy, a beautiful thing but comes in too nearly with Ivory to find sale; Mollie Bawn, a fine flower but no good for cut flowers as it won't ship; Annie Manda, don't like it; Flora Hill, can't make it grow; Ada McVicker, flabby; Mrs. Geo. Bullock, too much like Domination; Mrs. Gov. Fifer, flower a little too loose. He has Jos. H. White on trial and is favorably impressed with it. A host of new whites are also on trial.

In miscellaneous colors he grows some of Harry May, a fine thing and useful; E. G. Hill, a good sort, Geo. W. Childs he finds too unreliable; Cullingfordii is still *the* red, he knows of no other chrysanthemum that has the color and is any good for cut flower growing; O. P. Bassett is a good late red; Lilian Russell he likes very well; Mrs. Benj. Harrison is a pretty thing and useful but there are many better ones of similar type.

He finds that flowers with short straight petals are the kinds that take in the Chicago market. Ivory is the type of those that sell best.

Following is his system of culture, but it must not be overlooked that he grows entirely for cut flowers. In fall he propagates from the old plants in the usual way and the young plants are carried over in the houses till the following spring. These are planted out in the open

ground as early as possible, usually about the middle of May. Cuttings are taken from these from the middle of June to the middle of July. He has rooted cuttings as late as the last of July and had good results. He finds that he gets better wood from plants that have been bedded outside as above described. It is necessary to have twice as much stock of W. H. Lincoln as of other sorts, as that variety does not make as many cuttings as the others. He is careful to get the cuttings into the sand without flagging. When rooted the plants are potted into 2½-inch pots and are kept moving for all they are worth from this time till flowers are cut.

Early in August most of them will be in 3-inch pots, and they are then planted out on the benches about eight inches apart in six inches of soil including the sod strips at the bottom. The soil is two-thirds rotten sod and one-third cow manure. He prefers to mix the soil the year before and let it stand over winter before using.

Staking is done as soon as the plants are eight to ten inches high. The stakes are of No. 6 galvanized fence wire straightened and cut to lengths of about four feet, or shorter where glass is too low to admit this length. With Ivory, Lincoln and Mermaid no stakes are used. Two wires are stretched along side of a row of plants, one wire above the other, and to these the plants are tied as growth is made.

At first he waters lightly and carefully but syringes a good deal, but after the bench is full of roots he gives them large quantities. When the buds begin to show color he is careful to keep a dry atmosphere at night.

He feeds liberally when the plants are strong enough to assimilate it, but watches each variety and feeds according to its needs. When the plants are overfed the foliage is unusually dark, the leaves thickened and cupped and very brittle, cracking quickly when bent. He thinks the brown tips frequently seen on leaves is produced largely if not entirely by overfeeding.

He finds that fresh cow manure, nightsoil, etc., produce a rank growth and make a coarse plant. Sulphate of ammonia seems to especially encourage growth of stalk and foliage but not so rank as the cow manure, etc. Nitrate of soda seems to favor growth and coloring of flowers at the expense of stem and foliage.

Therefore when a variety seems to lack vigor he gives it cow manure, nightsoil, etc. If the condition of the plant indicates that it does not need above then he uses the sulphate of ammonia. After the buds are well formed he feeds largely with nitrate of soda, with an occasional dose of cow manure, nightsoil, dissolved bone, bone black, etc.

He generally begins feeding as soon as the soil is well filled with roots, beginning with very weak doses and gradually increasing the strength as seems discreet. At first he feeds about once in ten days and toward the last gives it to them as often as twice a week, watching each plant and skipping those that seem to have had all they can stand. The whole secret of feeding lies in good judgment and experience.

All his plants are grown to produce one fine flower, and he almost always takes the terminal bud, rubbing out *all* the other buds of all kinds, as this seems to give better foliage on the stem, which is a great desideratum in a fine flower to-day. With Lincoln and varieties of similar growth it is especially important that disbudding be done as soon as possible after buds form as if the operation is deferred the stem is apt to come crooked, and a straight stem is essential in a cut flower. The plants are kept carefully tied to the stakes as growth is made to keep the stems straight.

He has been troubled this year by grasshoppers and leaf-rollers, but has discovered no remedy except hand catching and hand picking. There is also a worm that eats out the crown, for which hand-picking is the only remedy he knows.

The flowers are never cut till fully developed and are much better if then placed in jars of water in a dry cool cellar for two or three days before being sent to market, cutting off a piece of the stem of each flower and changing the water daily. Some varieties can be kept this way for two weeks and show improvement all the time, if care is taken to overhaul them every day. Most of the whites will improve in clearness of color if subjected to this treatment. But the cellar must be quite dry. A damp one would do more harm than good.

Chrysanthemum flowers, especially colored ones, must be kept away from ice or the color and quality of the flowers will suffer.

Referring to his system of propagating late and growing all plants to single stem and single flower Mr. Rudd says he gets much better returns per square foot of bench surface than he would by growing larger plants and more flowers to a plant.

Chrysanthemum Shows.

Pittsfield, Mass., Oct. 31-Nov. 3—Berkshire County Gardeners' and Florists' Club. W. M. Edwards, Sec'y, 103 Howard St., Pittsfield, Mass.

Baltimore, Nov. 6-11—Gardeners' Club of Baltimore. Wm. McRoberts, Jr., Sec'y, 304 W. Madison St.

New York, Nov. 6-13—New York Florists' Club. John Young, Sec'y, 53 West 30th St. Henry McCrowe, manager of exhibition, Grand Central Palace.

Milwaukee, Wis., Nov. 7-9—Milwaukee Florist Club. A. Klokner, Sec'y, 219 Grand Ave.

Newport, R. I., Nov. 7-9—Newport Horticultural Society. John J. Butler, Sec'y, P. O. box 313.

Toronto, Out., Nov. 7-10—Toronto Gardeners' and Florists' Association. A. H. Ewing, Sec'y, 85 Carlton St.

Boston, Nov. 7-10—Massachusetts Horticultural Society. Robert Manning, Sec'y, 101 Tremont Street.

St. Louis, Nov. 7-10—St. Louis Florists' Club. E. Schray, Sec'y, 4101 Pennsylvania Ave.

Indianapolis, Ind., Nov. 7-11—Society of Indiana Florists. Wm. G. Bertermann, Sec'y, 37 Mass. Avenue.

Philadelphia, Nov. 7-11—Pennsylvania Horticultural Society. D. D. L. Farson, Sec'y, Broad St.

Worcester, Mass., Nov. 8-9—Worcester County Hort. Society. Edw. W. Lincoln, Sec'y.

Montreal, P. Q., Nov. 8-10—Montreal Gardeners' and Florists' Club. Henry Stocking, Sec'y, 230 St. Denis St.

Providence, R. I., Nov. 8-10—Rhode Island Hort. Society. C. W. Smith, Sec'y, 61 Westminster St.

Springfield, Mass., Nov. 14-16—Hampden County Hort. Society. Joseph Booth, Sec'y, care of Springfield Institution for Savings.

Chicago, Nov. ———Horticultural Society of Chicago. W. C. Egan, Sec'y, Highland Park, Ill.

The World's Fair.

An interesting feature of the department greenhouses at the present time is the collection of new and beautiful caladiums received from the Brazilian government. The tubers were received early in August and were immediately potted in 6-inch pots. They have been kept in one house from the time they were started, but it is likely that they will soon be removed to the dome. The house is tolerably light, having only a light shading on the roof. About four weeks ago the plants were shifted into 8-inch pots; they have all grown well and are in fine condition.

The first thing to strike an observer is the remarkable brilliancy of the colors in some cases, the waxen delicacy in others. In some cases the leaves have such a translucence that they suggest parafine paper or thin sheets of wax. In several varieties this transparency is so strongly marked that distinct writing, laid underneath, may be read through the leaf.

Among brilliant colors the variety Pitanguy is worthy of note; it has a large, bright red leaf, with deeper veins and pale green border. Cannavieras is a very dwarf small-leaved sort, red, with deeper veins and light bright green border. Wilhelm Ziegler is very distinct and handsome, stalk and ribs deep purple, leaf dark green, mottled with white and suffused with red—a very desirable variety. Mucuripe, a very showy sort, has old rose center, shading to white, with delicate green border. Coxim has purple stalks, large leaves with red veins and white center suffused with red; the green border is marked with red blotches.

Benevente is an example of the waxen transparency noted. The color is a delicate flesh, with a border of bluish green, the veins deep flesh color. The leaf is so extremely waxy that some of the visitors refuse to view it as a product of nature and insist that it must be artificial. Coimbra is green, veined with flesh, splashed with white. Ladario, a handsome green with flesh colored veins. Joao de Barrios is very striking; a small pointed leaf of bright green, splashed with white, stalk black. Roderio is another of the waxen ones, leaf entirely white, faintly bordered pale green. This seems to grow strongly, yet one cannot help thinking that such an absence of all coloring matter must point to a delicate constitution; it appears unnatural.

Ayres da Cunha has a red stalk, supporting a small cordate leaf, surface deep green, with red veins. Two varieties of unusual beauty are Rio de Janeiro and Guaicuhy; the first has the leaf entirely of bright rose, with deeper veins, the texture very waxen; the second leaf stalks of deep purple, leaf rose, with red veins. Pedro Alvares Cabral has brilliant light green leaf, with red veins; Jaguaruna, leaf with white center, suffused with rose; and Concordia, a red stalk, supporting a red leaf with crimson veins and greenish border.

Azulao is remarkable for its bluish tint; the center and veins are a sort of mulberry purple, with a faint grape-like bloom on the surface; the border is green. Guil Mar is old rose, with whitish veins and blotches, waxen; Taperoa, red veins, leaf green and red; Pelotao, rose with red veins, the leaf oddly blotched with lighter rose, border green. Paracupeba is a large red leaf, with green border; Itapocu, a brilliant red, with deeper veins and a green line on the margin. This is a very vigorous grower. Trahirasis pure white, with deep green veins; this is a very marked variety, apparently robust and fine in contrast with the red sorts. Carapina is another very robust grower; the leaves are large, rose colored, with deep, green veins. Iracema is an attractive dwarf plant with small leaves, pale green, blotched with red, veins white. Joazeiro has deep red stalks, leaf deep bronzy red, with red veins; Araruama, pale red, with pale green border, a small pointed leaf and dwarf growth. Itaboca has a large, greenish white leaf, very translucent; Rio Bonito is of similar type, white, with a green line on the edge. Wilhelm Pfitzer has a velvety red center, with pale green edge. Assunguy, particularly fine, rose color, with deep green veins, very large and robust; Rio Vermelho, white, suffused with rose, deep rose veins.



EXHIBITS OF HARDY PLANTS AND SHRUBS ON THE ISLAND AT THE WORLD'S FAIR.

Quite a number of the tubers of these caladiums were small and the plants are all smaller than those in the G. W. Childs collection, which have been on exhibition for some time. But the coloring throughout is of remarkable beauty, in many cases utterly unlike anything we have seen before, and the exhibit is most interesting. These plants will be a great attraction when moved over to the dome.

The New York display of tuberous begonias is now in fine order, covered with bloom and in perfect health. The aristolochia is again flowering freely. In the large building things are much the same as at last writing; among orchids now in bloom in Pitcher & Manda's display are Vanda cœrulea, Oncidium varicosum Rogersii, Cypripedium Ashburtoniæ, C. Sedeni, C. Sedeni candidulum and Stanhopea grandiflora.

Awards at the World's Fair.

The list of awards to exhibitors in the Bureau of Floriculture has been issued. The names of those who receive medals appear below:

NEW YORK.—F. R. Pierson Co., Tarrytown, seven varieties of cannas; New York Florists' Club, horticultural literature; E. Asmus, lilies of the valley; Ed. Jansen, New York, wicker vases; New York State Commission, tuberous begonias, palms, hollyhocks. irises, roses, crotous; Peter Henderson & Co., New York, primroses, rubra, cyclamens, pansies, etc., Canna Mme. Crozy; J. M. Thorburn & Co, New York, Cyclamen atropurpureum; Siebrecht & Wadley, New Rochelle, Ouvirandra fenestralis; Fred W. Kelsey, New York City, rhododendrons; William Tricker, Dongan Hills, Nymphæa Laydekeri rosea; New York State Museum, Albany, fungi; D. B. Long, Buffalo, floral photos; Abenroth Brotbers, New York, plant receptacles, vases; J. H. Small & Sons, New York, floral designs; Reed & Keller, New York City, florists' supplies; Mrs. H. Walter Webb, New York City, mounted fern collection; Ellwanger & Barry, Rochester, hollyhocks pæonies, rhododeudrons; William Nilsson, New York City, bedding plants and ornamental design; Eileen Donlan, Brooklyn, bedding plants in ancient harp design; G. Marc & Co., Flushing, roses; Parsons & Sons Co., Flushiug, rhododendrons.

PENNSYLVANIA.—Henry A. Dreer, Philadelphia, cineraria, primrose, gloxinia, caladiums, ferns, cannas; Peunsylvania state board, ornamental foliage plants, canna; Geo. W. Childs, Philadelphia, caladiums; A. Blanc & Co., Philadelphia, cacti; E. Stebe & Sons, Philadelpbia, plant receptacles aud cork decorations; E. Kaufmann & Co., Philadelphia, floral designs; B. A. Elliott, & Co., Pittsburg, herbaceous plants; Dingee & Conard Co., West Grove, roses; George Craig, Philadelphia, roses; William Hamilton, Allegheny Park, specimen palm, H. S. Rupp & Sons, Shiremanstown, double white primrose.

ILLINOIS. J. C. Vaugban, Chicago, ten varieties of canna, deep crimson cyclamen, collection of roses and Senator McNaughton rose; Miss Nettie Palmer, Edison Park, herbarium; Mrs. C. A. Sheldon, Chicago, herbarium of Mexican winter flora and algae; E. A. Bechtel & Sons, Staunton, double flowering crabapple.

NEW JERSEY.—Pitcher & Manda, Short Hills, ferns, floral photos, lilies, pyretbrums, iris, herbaceous plauts, roses, orchids, palms, tree ferns, araucarias, rbododendrons, ornamental foliage plants; E. D. Sturtevant, Bordentown, aristolochia, nymphæas.

MASSACHUSETTS.—R. & J. Farquhar, Boston, double crimson primrose, cyclamen, cineraria; Rea Bros., Norwood, herbaceous plants.

MISCELLANEOUS AMERICAN.—E. G. Hill & Co., Richmond, Ind., begonias; Montana State exhibit, herbarium; Mrs. L. E. Howey, Montana, herbarium; I. N. Kramer, Cedar Rapids, Iowa, canna; Dayton Star Nursery Co., Dayton, O., roses; Anna B. Nickels, Laredo, Tex., cacti; Sherwood Hall Nursery Co., San Francisco, sweet peas; California Nursery Association, Niles, Cal., roses; state of Kentucky, herbarium; Nanz & Neuner, Louisville, roses; Miss Sadie Price, Bowling Green, Ky., herbarium sketchwork; Women's Board of Colorado, Denver, herbarium; Mrs. S. B. Walker, Castle Rock, Colo., herbarium; Missouri State Commission, herbarium.

FOREIGN.

GERMANY. — Henry Mette, Ernst Benary, Haage & Schmidt, Otto Olberg, T. J. Seidel, Kohlhaas & Hohnsanger, Otto Schlee, C. Beuttenmueller & Co., H. Wrede, Frederick Maecker, Carl Gorms, Dresden florists, Oskar Tiefenthal, Lambert & Reiter, Pape & Bergmann, V. Doppleb, C. Platz & Son, C. Schwanecke, Martin Grashoff, Wilhelm Pfitzer, E. Neubert, E. Vandersnussen, Gust Schultz, Julius Hansen, Frederick Roemer, Joseph Mock.

HOLLAND.—Boskoop Nursery Association, Jac. Jurissen.

AUSTRIA.—E. Seyderheim.

ENGLAND.—John Laing & Sons, James Carter & Co., Kelway & Son, H. Cannell & Sons, Anthony Waterer & Sons.

IRELAND.—Alexander Dickson & Sons.

NEW SOUTH WALES.—Commission of New South Wales.

CAPE COLONY GOVERNMENT.- Mrs. Ogilvie, Cape Government.

FRANCE.—Vilmorin, Andrieux & Co., Croux & Sons, V. Lemoine & Sons, M. Moser.

GUATEMALA.—Government of Guatemala.

BRAZIL.—Ouro-Preto pharmacy school.

CANADA.—Mrs. A. M. Croly, Ontario government commissiou.

JAPAN.—College of Science, Shibota Tomiyama, Yokohama Gardeners' Association, Sen Tsuda & Company.

ITALY.—Hillebrand & Bredemeier.

MEXICO.—Mexican government commission.

Killing Grubs in Soil.

Mr. W. N. Rudd, Mt. Greenwood, Ill., treats all his soil with live steam before using, and thus gets rid not only of grubs but all other insect larvæ and germs of fungus, etc. that the soil may happen to contain, and weed seeds too. He never has any weeds in his houses until after he has used a mulch or has otherwise fed the plants after being benched.

His method of treating the soil is very simple. In the frame yard he has a big box or bin 20 feet long, 6 feet wide and 4½ feet deep, well braced. In the bottom is a run of three 1¼-inch steam pipes in the sides of which 3-16-inch holes are drilled every 18 inches. The soil is thrown into this bin and when full it is covered with hotbed sash and the steam turned on. About two hours of this is sufficient to kill all animal or vegetable life in the soil. It is the general habit to put a few potatoes on top and when these are cooked the soil is in condition. One would imagine that this cooking would make the soil soggy, but it has no such effect, and indeed the soil seems in better condition afterward than before the steam has been applied. And the fine condition of plants growing in soil that has been so treated proves that the soil has not been injured in the least.

After the bin has been built, and the expense of same is slight, the only cost of treating the soil is the two handlings, one in and one out of the bin, and in view of the frequency with which serious loss is caused by grubs and fungi, etc., in the soil, the precaution is one that no grower should fail to take.

WE request subscribers to make remittance by draft or money order when renewing subscriptions, and to keep a record of the numbers and dates of same. This is to guard against losses in the mails.

Philadelphia.

Isaac Kennedy has returned from his trip to Cape Cod, where his family have been spending the summer. He describes it as an ideal health resort.

All the seed stores and those of the florists who handle bulbs now have their windows full of this class of stock. The bulbs seem to be in fine condition, and from all accounts business in this line will exceed previous seasons.

The September meeting of the Penna. Horticultural Society was fairly well attended. Vice-President Reed occupied the chair. The coming chrysanthemum show was discussed, and it was the general opinion that it would equal, if not excel, all previous exhibitions. Some entries have already been received, and from the interest taken by intending exhibitors it is thought that the cut flower department will be a very attractive part of the display. The exhibits of cut roses will, it is said, be larger than ever before. It is thought, too, that the novelty of holding the show in the beautiful Armory building will also attract visitors.

Secretary Farson reported that the temporary roof over the front portion of the hall had been completed, and that with a little paint and plaster the library and office would soon be ready for occupancy. It was also agreed to have all the books brought back and arranged on the shelves, as it is not at all likely that any change will be made for some months.

This valuable property is considered to be worth from two hundred and fifty to three hundred thousand dollars, and if we are informed correctly it is now for sale. It was said by those favorable to the sale and investment of the proceeds, so as to secure a permanent income to the society, that the property would easily bring a sum considerably over $250,000. It has been in the market now for over two months and we have yet to hear of an offer at any price. Horticultural Hall has been a landmark in Philadelphia for a long time. Since it came into the possession of the society it paid expenses, but there was nothing left to go into the treasury. It is managed by a board of trustees, and when they came into control they found the building very much out of repair, and considerable money had to be and was expended the first and second years to put the property into such condition that it could be rented. Since that time a great deal of money has been annually paid for other repairs and improvements. Only a few months before the fire the insurance companies ordered iron shutters to be placed on the windows along one side of the hall; this was quite an expense and did not add anything to the earning capacity of the building. Although the hall answered the purposes of the society it was not at all a modern building, nor one in keeping with similar structures of to-day. Yet it managed to pay running expenses as well as all repairs and improvements. In addition it is estimated that the valuation has increased at least $25,000 since it has belonged to the society. Those who desire the property sold say that the limit has been reached; that if the society held it for ten years longer they may not get as good a price as they can at the present time. We are glad to say, however, that this is not the unanimous opinion; those who think that Philadelphia is done will wake up some day and wonder where they are. It is conceded that the present location is the best in the city for a fine hall that can be rented for high class entertainments, such as concerts, balls, public meetings, fairs, etc., etc., and the society could erect just such a building by adding to the present insurance money a suitable sum that could easily be borrowed on the ground. The interest on this would make a mere nominal rent, and with a sinking fund the mortgage could in time be paid. If the trustees have obtained the power to sell they could as easily get the authority to make a loan, and we feel sure the new hall would make more money than the portion it is proposed to invest would return, and the society would have a magnificent home, and one that would add prestige to its already honorable name.

Business has been nothing to brag about the past week; there has been plenty of stock of good quality, and we feel sure we voice the trade when we say that we are all sorry, very sorry, that the demand hasn't taken on that promised brace. Prices remain about the same as last week.

Chas. Kohlert, of somewhere in the vicinity of 1514 Chestnut street, stands a trifle taller, and his smile is some inches broader these days, it's a "b'hoy."

The McLean team of bowlers have defeated the Craig boys twice in succession the past two weeks on the club alleys. In the last match Anderson put up 511 in the three games. K.

New York.

Roses in all varieties have shortened up considerably. The number of American Beauties and Meteors coming in is not more than one fourth of what it was one week ago and there is now no difficulty to dispose of them all at a price. Prices have not advanced any as yet, but the stock is fairly well cleaned up every day. There seem to be more Perles grown this season than there were a year ago, and those that are coming in are of very fine quality. Cusin, as usual in the fall, is of very deep color, some blooms being as dark as Gontier, but buyers do not fancy it in this condition.

Trade over at the 34th street market is quite dull. A severe frost to put an end to the surplus outdoor flowers is what they are praying for. Johnnie Weir is around his old familiar haunts again, the only evidence of his recent trip to Chicago being an occasional mysterious remark about Montana, and a disinclination to walk to and from 34th street in the mornings. This latter feeling he shares with John Raynor and Alex Burns. An express wagon is the height of their aspirations so far, but a two horse carriage is probably only a question of time.

W. K. Harris, of Philadelphia, was a recent visitor to Ernst Asmus' place, where the chrysanthemums have now reached their interesting period. On comparing notes it appeared that chrysanthemums at West Hoboken are considerably earlier this season than they are at Philadelphia. On some varieties the buds are already one half inch and upwards in diameter. Ferdinand Bergeman is the earliest white. Mr. Asmus observes that the succession of varieties as to earliness varies greatly from year to year, the earliest bloomers of last year being this season far behind some that were beaten by them last year. He has a seedling of last year which he describes as a "yellow Ivory" which promises to be very early this season. Mr. Harris naively remarks: "We have heard of yellow Ivorys before," and adds with a look of pride, "Ivory is the world's standard."

Flora Hill and Golden Wedding are both poor growers with Mr. Asmus, and neither will stand pinching. The California novelties are also proving unsatisfactory. His carnation plants have suffered from the dry weather somewhat in size, but all look well, none showing any sign of rust excepting Emily Pierson. On being asked whether he should force many tulips this winter Mr. Asmus replied "not a tulip."

If newspaper notices count for anything Mr. Fleischman's new store on Broadway ought to make a big success, for all the daily papers have been well filled with descriptions of this new attraction and its enterprising owner. But is it wise to say too much about immense profits? If one does not want to be overwhelmed with competitors the less said about immense profits the better.

The Wabash R. R. people have been much disturbed regarding that much-talked-of supper which the New York delegation to St. Louis lost on their westward trip, and have been raking their agents on that part of the road over the coals. It transpires that the trouble resulted from the temporary absence of a telegraph operator from his post, he having gone to deliver in person a death message which he had received for a neighbor. It is not likely that the mishap will occur again in that vicinity. However, barring that one incident, no delegation of florists was ever treated with any greater courtesy than this party received from the officials of all the roads over which they traveled.

Chicago.

Flowers are extremely scarce; the early part of this week there was not enough material to fill the demand. The shortage applied to all classes of flowers. Two sharp frosts have cut down the little remaining outdoor bloom, which has been poor in quality for some time, and many growers are wisely limiting the production inside for the sake of strengthening their plants. So prices are stiffening, and there is already a little advance.

Roses are scarce; Meteors, which have been coming in fairly all summer, are now falling off and there is some advance in the price of La France, Mermet and Perle. Carnations are very scarce, somewhat inferior in quality. Violets are too few to be quoted, and only single ones at present, though Marie Louise is expected almost daily. Valley is very limited. A few straggling gladiolus are seen, but they are really at an end. Prospects of trade are brightening, and, within a month, both stock and prices will be much better.

Recent visitors: A. W. Bennett, Pittsburg; Richard Merritt (with J. M. Hodgson), New York; J. Lymas (gardener to Capt. Vandergrift), Pittsburg; John N. Laurie (with Lord & Burnham Co.), Irvington-on-Hudson, N. Y.; W. J. Hesser, Plattesmouth, Nebr.; Alex. Kennedy, New Brunswick, N. J.; C. W. Kennedy, Oil City, Pa.; E. C. Beatty, Oil City, Pa.

Boston.

Saturday, September 23, was the last of the series of free weekly exhibitions at Horticultural Hall. Hardy asters were the special attraction and were shown in great variety. A large number of visitors was present admiring the beautiful display. Asters have never been seen here to better advantage. Each year seems to show an improvement in colors and size of flower. Geo. Hollis was again the largest exhibitor, his collection containing no less than thirty-nine species and including a number of beautiful hybrids. Shady Hill Nurseries, Mrs. P. D. Richards,



BASIN OF AQUATICS IN FRONT OF THE HORTICULTURAL BUILDING AT THE WORLD'S FAIR.



THE OLD FASHIONED GARDEN IN THE NEW YORK STATE DISPLAY AT THE WORLD'S FAIR.

Rea Bros. and others also showed fine collections.

Dahlias are still in full glory, and W. C. Winter and John Parker made their usual display of the showy blooms. J. R. Leeson showed a plant of Saccolabium guttatum in bloom, for which a bronze medal was awarded. A branch of Louise Bonne pear bearing fruit and flowers at the same time was exhibited as a curiosity from a south Boston garden.

N. F. McCarthy & Co. had their first auction sale of plants on September 23. Palms and carnations in variety formed the bulk of the stock offered, and the prices realized were on the average fully up to regular prices at the nursery.

There are a good many roses coming in daily and the quality is improving, but carnations it is almost impossible to find. When a few do appear they go off at sight for two dollars per hundred. Asters are not very plenty and are in good demand. Gladioluses sell poorly this season and although they are unprecedentedly good, yet a large part of them find their way to the rubbish barrel.

Mr. J. G. Jack has begun a series of lectures and field meetings at the Arnold Arboretum for the purpose of giving popular instruction about the trees and shrubs that grow in New England. The meetings are held on Wednesdays and Saturdays until November 4.

Massachusetts Horticultural Society.

The annual meeting of this society for the choice of officers and standing committees will be holden in the library room, No. 101 Tremont street, Boston, on Saturday, October 7, 1893, at 11 o'clock. a. m. Agreeably to the constitution and by-laws the polls will remain open at least two hours.

The officers and committees to be elected are: A president, four vice-presidents, a professor of botany and vegetable physiology, a professor of entomology, a delegate to the state board of agriculture, a delegate to the board of control of the State Agricultural Experiment station, an executive committee of seven members, a finance committee of three members, a committee on publication and discussion of three members, a committee for establishing prizes of two members, a committee on the library of five members, a committee on gardens of three members, a committee on fruits of seven members, a committee on flowers of five members, a committee on plants of five members, a committee on vegetables of seven members, a committee of arrangement of two members.

The committee for establishing prizes, *elect*, will consider the schedule of prizes for the year 1894 on the first Saturday in November. Members of the society having any suggestions to make for the improvement of the schedule will confer a favor by communicating such suggestions to the chairman of the committee before that time.

Baltimore.

"It is the unexpected that happens," said a shrewd observer of human affairs; and it was the unexpected that came out of a little parcel that arrived by mail the other day, nothing less, in fact, than a spool of dark green shoemakers' thread. Now, after having made sure that there was nothing of the kind to be had here, it was rather vexatious to find that it was to be had in a much smaller town, but there it was, and after all it is a good thing wherever it comes from, and ought to be welcomed by the smilax men everywhere. The spool is marked 4 ounces Saint Andrews Thread, No. 10, cost thirty-one cents and came from Buffalo, N. Y. It is close twisted and very strong, and dark enough in color to fade out to a true smilax shade after being strung up a few weeks.

Business here continues "flat, stale and unprofitable" enough, but the summer is almost over and there was never a better prospect for a good winter supply in the history of Baltimore. We are going to supply ourselves with cut flowers, mark that. After that result is reached some of the more adventurous spirits may undertake to supply someone else, but the supply for ourselves is in sight anyhow.

A successful grower of violets, in a small way, in the neighborhood of Govanstown, gives as his method late propagating and keeping in active growth until winter. His plants are perfectly clean and free from spot, but the flowers would hardly be early enough for profit.

MACK.

St. Louis.

The protracted dry spell has at last been broken by several days' rain and it is hoped that the extremely warm weather prevailing during the first part of this month will be affected in the same way; certain it is that nothing can be looked for in the way of trade until cooler weather prevails.

A meeting of the members of the exhibition committee was held during the week and the plans for the fall show completed; the work to be done, such as advertising, printing and many other details, were all placed with members, who will carry them forward to completion. It has been decided that two of the special prizes offered at the last club meeting shall be for cut flowers; one calls for the largest and best collection of cut carnations, not less than 10 flowers of a kind, and is divided into three prizes; the second is offered for the best 5 varieties of cut roses, 20 of a kind, and will all be held as a first prize. It was decided also to call for cut roses on both the first and third day, instead of only on the third day, as heretofore; many who attended the first days were disappointed in not seeing them and commented upon the fact afterwards.

Several members were also appointed as a committee to draw up and have printed a neat circular, announcing the show, giving the principal features and also the special features for each day; these will be mailed to parties likely to attend to the extent of several thousand and will also be distributed to the various retail florists for presenting to customers.

There was a sale of some of the effects of the Elleard Floral Co. at their greenhouses on the 22d. It is reported that the amount realized was very small, stuff having sold very cheap. A novelty for this season of the year is the Cape Jasmine, which has come in from the south; the flowers are on good long stems and are of a better quality than those received in the spring, selling for 3 cents.

R. F. T.

Mushrooms and Toad Stools.

Your lively and versatile Philadelphia correspondent, "K," quotes me in regard to mushrooms, in your last issue.

Now, while I do not object to being quoted, I do object to being held up as an authority on mushrooms and toad stools. I am a jobber of mushroom spawn, but what of that? You would not call a man an archangel though he sold archangel tar, would you? But although I do not profess to be posted in regard to these wild mushrooms I hope no one will think I am so grossly ignorant as not to know that the poisonous amanita which resembles the Agaricus campestris somewhat grows in an entirely different habitat—in the depth or on the edge of woods—while the A. campestris always grows in the open.

What I did say to "K" was that there were some varieties of mushrooms that resembled the campestris and unless one was an expert he'd better stick to the home grown product. I consider it good business for any one interested in the growing or selling of mushrooms to talk in that strain to the public. It would do serious injury to the mushroom business if the public were to run away with the idea that there was any danger from the home grown product.

Your correspondent's intentions were good and I forgive his levity on the score of his youth and innocence and write you this note chiefly to protect myself against the possible shafts of some sharp New Yorker. I have a lively recollection of what happened when "K" reported "The war of the cannas." If, like the Scotch editor, I "jock wi' deefeeculty" myself, yet I enjoy a joke well enough if no harm is to come from it, only, hereafter I would like "K" to tell me when I'm being interviewed for publication and when I'm not. It might keep back some chaff and let nothing but the pure wheat get to Chicago.

G. C. WATSON.

Philadelphia, September 24.

WE HAVE RECEIVED a prize list of the fifth annual chrysanthemum show of the Montreal Gardeners' and Florists' Club, which is to be held in Fraser Hall on November 8-9-10. The schedule is quite comprehensive and the premiums amount to about $500 in cash besides two silver cups.

W. HOBOKEN, N. J.—The cyclone tail end which struck this town the end of August destroyed a number of trees by uprooting. On the place of Mr. Geo. Alces, however, who has some very choice fruits, trees received immediate attention in being raised and cared for. He is rewarded by seeing a young pear tree now *in full bloom*, with just the first signs of young foliage, old leaves all dropped off and one large, fine pear, the only survivor of the storm. This is probably not often seen.

HARTFORD, CONN.—The September exhibition of the Hartford Horticultural Society was held on September 19 and 20. The exhibits of plants, flowers and vegetables were superior. Palms, ferns and stove plants in general made a good show, the principal exhibitors being Geo. M. Atwood and W. B. May. G. W. McClunie made a very pretty dinner table decoration and D. N. Spear showed a good collection of bulbs, etc.

NEWPORT, R. I.—The Newport Horticultural Society has decided to hold its chrysanthemum show on November 6, 7 and 8. This will be the fourth annual show of the society and indications point to a very complete exhibition. The Newport exhibitions are always grand, the material for such enterprises in this vicinity being almost unequalled, and the amateur growers of rare plants, as well as the private gardeners and florists, can always be depended upon to do their best on such occasions.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—In good private place; 13 years' experience; age 26. Excellent references. W K. care American Florist. Chicago.

SITUATION WANTED—By an experienced florist and gardener. Address E. HAY, care Mrs. Josephson, 200 N. Green St., Chicago.

SITUATION WANTED—By a practical florist; 23 years' experience in roses and carnations and general plants. Best of references. Address GERMAN, 266 Floyd St., Brooklyn, N. Y.

SITUATION WANTED—By a young German with 7 years' experience in the business. Can give good references as to ability, etc. Address ALBERT ULRICH, 217 N. Wells St., Chicago.

SITUATION WANTED—By a practical florist, 21 years experience. commercial or private; good references; married. Address O. E. WOLFF, 2414 Euclid Ave., St. Louis, Mo.

SITUATION WANTED—By florist; American; private or commercial place; 4 years' experience; age 20; can show good references from the best firms in U. S. Address J F, care American Florist.

SITUATION WANTED—By practical gardener, as foreman or headgardener in commercial or private place; 20 years' experience. Understands orchids. Good references. M, Woodland P. O , Chicago.

SITUATION WANTED—A French gardener, of great experience, employed at the Fair wishes a situation. gentleman's place preferred. Can give the best references. Address A Z, care Am. Florist.

SITUATION WANTED—By an experienced seedsman. Thoroughly competent in wholesale, retail or on the road. Particulars and references by correspondence. Address SEEDSMAN, care Am. Florist.

SITUATION WANTED—By single young man, as second gardener on private place. Long experience in all branches. First-class references. Address J. MEADE, care Wm. Tricker, Dongan Hills, L. I., N. Y.

SITUATION WANTED—As foreman on commercial place; thoroughly practical in roses, carnations and bulb forcing, and all branches of the profession. References. THOS. McKINZIE, 96 Lindus street, Cleveland, Ohio.

SITUATION WANTED—By young man; 8 years experience in growing cut flowers and general greenhouse stock, first class designer and decorator; references given. Address G. B. K., care Fred Engel, Farina, Fayette Co., Ill.

SITUATION WANTED—By a young English speaking German, experience in roses, carnations and general culture, etc; good recommend from last place. private or commercial in or near New York. Address C. Ph. J., 10 North Bond St., Mt. Vernon, N. Y.

SITUATION WANTED—By a practical florist with 9 years' experience in America, England and Denmark; age 25; well up in roses, carnations, smilax and general greenhouse stock. Address CHRIST. ANDERSEN, 225 Milwaukee Ave., Chicago.

SITUATION WANTED—A competent florist with 11 years' experience in U. S. and Sweden; well up in growing of roses, carnations palms and general greenhouse stock; good designer; sober and steady; age 26; single. Address G P, care American Florist.

SITUATION WANTED—As foreman or manager; understands growing roses, carnations, violets, decorative and bedding plants, forcing of bulbs; also making up, etc. A life experience; age 39; single. Good references. State wages. D N, care Am. Florist.

SITUATION WANTED—As general foreman and all round grower; has held similar positions for the last six years in this country, and has had a thorough training from boyhood in good English nurseries. Good references. Address H. WESTON, 387 Woolsey Ave., Astoria, N. Y.

SITUATION WANTED—By young German in a commercial place, practical and sober; age 25; 8 years experience; first-class rose, carnation, violet and general cut flower grower; can make decorations and design work of any kind. Can speak three languages, and furnish first-class references. State wages. Address G, care E. H. Hunt, 79 Lake St., Chicago.

WANTED—A quantity of second-hand frame sash. State price, etc. Address R. HUGHES, Haddonfield, N. J.

WANTED—A first-class fireman; married; no children preferred. ANCHORAGE ROSE CO., Anchorage, Ky.

WANTED—Young man as assistant in greenhouse and outside. State experience and wages per month with board. Address GEO. S. BELDING, Middletown, N. Y.

WANTED—To go to Florida, January to April, a competent florist, experienced in table and room decoration - woman preferred Address WARD G. FOSTER, P. O. Box 2832, New York.

FOR SALE OR LET—A valuable florist establishment near depot. Apply to JACOB MENDEL, Nyack, N. Y.

FOR SALE—1,200 feet 4-inch pipe and fittings (Weatbered make), as good as new. MRS. GEO. WALDBAUER. Saginaw, Mich.

300 CASES
Lilium Harrisii or Easter Lilies.
250 BULBS TO A CASE. PRICE $13.50 EACH.

This is a **Special Shipment of Extra Choice Bulbs**, which have just been received. They range in size from 7 to 9 inches, and **are the Finest we have ever Imported.**

100 CASES
Pure White Roman Hyacinths.
SIZE, 11x12 c per 100, $2.00; per 1000, $15.00.
12x15 c. " $2.50; " $20.00.

200,000
Fine Mixed Varieties Hyacinths.
Double or Single and Colors Separate. Per 100 $2.50: per 1000 $22.00.

ROBERT BUIST, Philadelphia, Pa.
Mention American Florist.

SURPLUS BARGAINS.

CARNATIONS. GARFIELD, GOLDEN GATE, HINZE'S WHITE, STARLIGHT, $6.00 per 100. Strong, stocky, healthy, field-grown plants.

HYBRID PERPETUAL ROSES. Strong, 1 year old, field-grown, at $6.00 per 100, of the following varieties: Mme. Plantier, Baron Prevost, Mme. Chas. Wood, Ulrich Brunner, Jules Margottin, Ball. Belle, Paul Neyron, T. W. Girdlestone, Victor Verdier, John Hopper, Multiflora, Henry Schultheis, Mme. Geo. Bruant, Gen. Jacqueminot, Mme. Eugene Verdier, Coq. des Blanches, Perle des Blanches, Gen. Washington, La Reine, Alfred Colomb, Clemence Raoux, Earl of Pembroke, Anna de Diesbach, M. P. Wilder.

HYDRANGEA OTAKSA AND THOS. HOGG. Strong, 1 year old, field-grown, 8 to 10 inches, at $8.00 per 100.

MARIE LOUISE VIOLETS, field-grown, $6.00 per 100.
GENISTA CANARIENSIS, 2½-inch pots, $5.00 per 100.
TRIFOLIATE ORANGE, 2½-inch pots, 6 to 8 inches, $5.00 per 100.
GEN. JACK ROSES, 2½-inch pots, $4.00 per 100.

These are especially desirable for Catalogue trade.

L. L. MAY & CO.,
FLORISTS AND SEEDSMEN. ST. PAUL, MINN.

30,000
CARNATIONS, FIELD-GROWN.
Strong, healthy plants.

American Flag, Portia, Garfield, Hector, Mrs. F. Mangold, Hinze's White, Grace Wilder, Lamborn, Golden Gate, Robert Craig.

$5.00 per 100.

FERNS.—A fine lot of Pteris and Adiantums, 2 and 3-inch pots, for florists' use. Write for prices—very low.

Evenden Bros.,
WILLIAMSPORT, PA.
Mention American Florist

FOR SALE OR RENT.
Rose and cut flower growing plant containing about 35,000 square feet of glass; houses heated by steam and hot water; all in good condition; well stocked with roses, ferns, palms, etc. Only 18 minutes ride from center of city. If you mean business, address FLORIST, care Chas. E. Prather, Louisville, Ky.

FOR SALE.
AT A BARGAIN
Devine Hot Water Boiler with 30 ft. stack.
GRENVILLE BROS., Omaha, Neb.

GREENHOUSE HEATING.
BY A. B. FOWLER.

Explains fully all the best systems of heating greenhouses by both hot water and low-pressure steam. Tells you the points to consider in selecting an apparatus. How to adjust same to various locations; gives the results of the latest scientific experiments Shows how to compute the number of feet of pipe required for a given space; draft and other important matters.

It is highly commended by Mr. John Thorpe and others. Postpaid, 75c.

Sent on receipt of price. Address,
AMERICAN FLORIST,
CHICAGO.

We Have
A FEW HUNDRED EACH

MRS. FISHER	$ 6.00	per 100
AURORA	12.00	"
PURITAN	10 00	"
GOLDEN GATE	5.00	"

EDW. SWAYNE,
Kennett Square, Pa.

FIELD-GROWN
Carnations and Violets.
ALL STRONG, HEALTHY PLANTS.

	Per 100
Grace Wilder and Puritan	$ 8.00
Daybreak and Nellie Lewis	10.00
Portia, Lizzie McGowan. Lamborn, Tidal Wave and Emily Pierson	5.00
Marie Louise Violets	5.00

J. T. LOVETT CO.,
LITTLE SILVER, N. J.

Always mention the American Florist when writing to advertisers.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Pittsburg.

Mr. A. W. Bennett formerly of Flatbush, N. Y., and more recently foreman for James Weir & Son of Brooklyn, N. Y., has been appointed superintendent of the new Schenley Park in this city.

This park, which is within twenty minutes ride of the postoffice, contains 432 acres, of which 300 acres were donated by a Mrs. Schenley and the remainder secured by purchase. The site of the park is one for which nature has done much and with but a moderate expenditure it can be made one of the most beautiful public parks in the country.

The splendid conservatories contributed by Mr. Phipps are now complete. They consist of a main palm house 142x60 and 65 feet high, a warm orchid house, cool orchid house, fernery, show house, stove house, victoria house (circular in shape and 52 feet in diameter), water lily house (35x84), and plant house. This range of glass cost over $100,000. It covers 34,000 square feet of ground surface.

In addition to the above a range of seven greenhouses, each 200 feet long, will soon be built, the plans having been adopted and the contract for their construction having probably been awarded at this writing. The greenhouses will be at a short distance from the conservatories. The heating is by steam and all through the conservatories there is service of both cold and hot water arranged so that water for syringing, etc., may be blended to any desired temperature. The greenhouses will cost $22,000.

In the park roads have been laid out, but little other work has as yet been done.

Mr. Bennett visited Chicago last week where he secured the World's Fair tree fern exhibit of New South Wales (illustrated in our Columbian souvenir number) which will take a place in the palm house at Schenley Park along with numerous other fine specimen decorative plants from the World's Fair and elsewhere.

Mr. Bennett is still a young man and with the magnificent opportunities now opened to him we shall be surprised if he does not make Schenley Park a beauty spot that will be a monument to his skill and energy for all time.

"TREE FERN."—The specimen you send is not in very good condition for identification, being but a portion of a frond and having only unripe spores, but is probably Allantodia Brunoniana, otherwise known as Asplenium Javanicum.

— SMILAX. —

Extra strong plants from 2½-inch pots, only $1.25 per 100; $10.00 per 1000.

Address H. MADSEN, Box 873. SPRINGFIELD, MASS.

"JACQ" ROSES the Year Around.

We are now Cutting THOUSANDS DAILY of

* METEOR ROSES. *

The finest Crimson Summer Rose, equal to "Jacq" in color and far superior in keeping qualities. Can supply it in quantity at all times. Prices on application.

F. R. PIERSON COMPANY,
Tarrytown-on-Hudson, N. Y.

My Specialties for Now:
Orchids, Lily of the Valley, Roses, Carnations, Asparagus plumosus, Smilax, Adiantum.

After Oct. 15th fine Chrysanthemums, "Prize Winners" If you want any, send in your orders.

Consignments Solicited.

T. J. CORBREY, Wholesale and Commission Florist,
45 Lake St., CHICAGO.

FOR DECORATING, NOTHING CAN EQUAL
ASPARAGUS PLUMOSUS NANUS.
CUT STRINGS 8 TO 12 FEET LONG, 50 CTS. 12 TO 18 FEET LONG, $1.00.
Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.
W. H. ELLIOTT, Brighton, Mass.

HARDY CUT FERNS
LAUREL FESTOONING,
SPHAGNUM MOSS,
IN ANY AMOUNT ALWAYS ON HAND.
H. E. Hartford,
18 Chapman Place, BOSTON, MASS.

THE
CHICAGO CUT FLOWER EXCHANGE
The First Annual Meeting of the Stockholders of the Chicago Cut Flower Exchange will be held on Friday morning, October 27th, 1893, at 10 o'clock, at 45 Lake Street, for the purpose of electing a Board of Directors, and transacting such other business as may be brought before the meeting.
T. F. KEENAN, Asst. Sec'y.

Roses. Adiantums.

Perle, 3-inch	5 cts.	La France, 3-inch	6 cts.
Watteville, 3-in.	5 cts.	Albany, 3-inch	6 cts.
Mermet, 3-in.	5 cts.	White La France, 3½-inch	8 cts.
Waban, 3½-in.	5 cts.	M. Niel, 3½-inch	10 cts.
Meteor, 3½-in.	6 cts.	Climb. Perle, 5-in.	20 cts.
Bride, 3½-in	6 cts.		

ADIANTUMS—Strong crowns.
3-inch..... 6 cents.
4-inch..... 10 cents.
5-inch..... 15 cents.

Address J. T. WILLIAMSON, or LA ROSE GARDENS, P. O. Box 49. MEMPHIS, TENN.

FOR SALE.
THE CUTS
USED IN ILLUSTRATING THIS PAPER.
Write for prices on any which you have seen in previous issues and would like.
AMERICAN FLORIST CO.
CHICAGO.

WHOLESALE FLORISTS
La Roche & Stahl
N. E. CORNER
13th & Chestnut Sts.,
PHILADELPHIA.
Mention American Florist.

SAMUEL S. PENNOCK,
Wholesale Florist
REMOVED TO REAR OF 42 S. 16th ST.,
Philadelphia, Pa.

W. ELLISON,
WHOLESALE
Cut Flowers AND Florists' Supplies
1402 PINE STEET,
St. Louis, Mo.

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
WHOLESALE
FLORIST,
1122 PINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO.
Western Agent for the GREAT ANTIPEST.

Kennicott Bros. Co.
WHOLESALE CUT FLOWERS,
34 & 36 RANDOLPH STREET,
CHICAGO, ILL.
WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
126 Dearborn Street, CHICAGO.
Store Closes Nights 9 P. M.; Sunday 2 P. M.

NILES CENTER FLORAL CO.
Incorporated.
WHOLESALE GROWERS OF
CUT FLOWERS of ALL KINDS
and Dealers in FLORISTS' SUPPLIES.
CHAS. W. McKELLAR, Mgr.
In Chicago Cut Flower Exchange.
45 Lake St., CHICAGO.

T. J. CORBREY,
Wholesale and Commission
FLORIST,
45 Lake St., CHICAGO, ILL.
In Chicago Cut Flower Exchange. . . .

J. B. DEAMUD & CO.
WHOLESALE CUT FLOWERS,
We have the finest stock of all varieties of Roses in the West. Shipping orders promptly attended to.
45 LAKE STREET, CHICAGO.
CUT FLOWER EXCHANGE,

A. G. PRINCE & CO.,
Wholesale and Commission
FLORISTS,
45 LAKE STREET,
In Chicago Cut Flower Exchange. CHICAGO.

DAN'L B. LONG,
COMMISSION • FLORIST,
495 Washington St., BUFFALO, N. Y.
FORCING BULBS, FLORISTS' SUPPLIES,
LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application.

H. L. SUNDERBRUCH,
Wholesale Florist
4TH AND WALNUT STREETS,
Cincinnati, O.

When writing to any of the advertisers on this page please mention the American Florist.

Wholesale Markets.

Cut Flowers.

NEW YORK, Sept. 23.	
Roses, Gontier	1.00
" Meteor	2.00@ 6.00
" Beauty	5.00@15.00
" general assortment	1.00@ 3.00
Carnations	1.00@ 2.00
Gladiolus	1.00@ 1.50
Valley	6.00
Auratum lilies	4.00
Asters	.50
Smilax	10.00@12.00
Adiantums	1.00
BOSTON, Sept. 23.	
Roses	2.00@ 4.00
Carnations	2.00
Asters	.50@ 1.00
Gladioli	1.00@ 1.50
Lily of the valley	5.00
Tuberoses	.50@ 1.00
Smilax	12.50
Adiantum	1.00
Asparagus plumosus	50.00
PHILADELPHIA, Sept. 23.	
Roses	2.00@ 4.00
" Beauties	12.00@15.00
" Meteors	5.00
Carnations	.75@ 1.00
Asters	1.00
Gladiolus, tuberoses	2.50@ 3.00
Valley	4.00@ 5.00
White hollyhocks	.75@ 1.00
Balsams	.25@ .50
Adiantum	.75@ 1.00
Smilax	15.00@18.00
Asparagus	60.00@75.00
CHICAGO, Sept. 25.	
Roses, Perles, Guillot, Niphetos	2.00@ 3.00
" Albany, Bride	3.00@ 4.00
" Meteor	5.00
" Beauties	8.00@15.00
Carnations	.50@ 1.00
Valley	1.00@ 3.00
Smilax	12.00@15.00
Asparagus	75.00
ST. LOUIS, Sept. 25.	
Roses, Albany, La France	3.00@ 4.00
" Bride, Mermet	3.00@ 4.00
" Perle, Wootton	2.00@ 3.00
" Meteor	3.00@ 6.00
" Niphetos	2.00@ 3.00
" Beauty	5.00@15.00
Carnations, short	.50
" long	.75@ 1.00
Violets, single	.25
Bouvardia	1.00
Smilax	15.00@18.00
Adiantum	1.00@ 1.25
BUFFALO, Sept. 25.	
Roses, Beauties	12.00@20.00
" Gontier, Niphetos, Hoste	3.00@ 4.00
" Mermet, Bride, Testout	4.00@ 5.00
" Meteor	4.00@ 6.00
Carnations, long	1.25
" short	.75
Valley	4.00@ 6.00
Smilax	12.00@15.00
Asparagus	50.00

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers AND Florists' Supplies
WHOLESALE.
67 Bromfield Street, BOSTON, MASS.

WHOLESALE FLORISTS,
JOBBERS IN . . .
. . FLORISTS' SUPPLIES,
METS, FLORISTS'
BRIDES, VASES.
GONTIERS,
CARNATIONS,
ALWAYS ON HAND.
1 Music Hall Place,
BOSTON, MASS.
HORTICULTURAL AUCTIONEERS. . .

CUT SMILAX,
15 cts. per string till November 1st. Quality first-class. Special attention to orders by wire.
J. E. BONSALL & SON, 308 Garfield Ave., Salem, O

Send for a Copy OF OUR
TRADE DIRECTORY
AND REFERENCE BOOK.
PRICE $2.00.
AMERICAN FLORIST CO.,
P. O. Drawer 164. CHICAGO, ILL.

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK.
WHOLESALE DEALERS IN AND SHIPPERS OF
Choice Flowers.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST.
32 West 30th Street, NEW YORK.
Roses Shipped to all Points. Price list on application.

JOHN YOUNG,
Commission Dealer in
CUT FLOWERS.
WHOLESALE.
46 WEST 30TH ST., NEW YORK.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT • FLOWERS,
51 W. 30th St., NEW YORK.

JAMES HART,
WHOLESALE FLORIST,
117 W. 30TH ST., NEW YORK.
The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHRS,
WHOLESALE
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.
Established 1879.

MILLANG BROS.,
Wholesale Florists,
17 WEST 28TH STREET,
NEW YORK.
BRANCH: Cut Flower Exchange, 408 E. 34th Street.

MICHAEL A. HART,
Wholesale AND Commission Florist
113 WEST 30TH STREET,
. . . NEW YORK.
THE FINEST ROSES AND CARNATIONS.
Branch, at Cut Flower Exchange, 408 E. 34th St.

EDWARD C. HORAN,
34 W. 29th Street, NEW YORK,
Wholesale Florist
Careful Shipping to all parts of the country.
Price list on application.

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St., BOSTON, MASS.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and treasurer, 116 Chambers street, New York. Next annual meeting second Tuesday in June, (will probably be held in Toronto.)

VISITED CHICAGO: J. Roscoe Fuller, Floral Park, N. Y; B. Landreth, Jr., H. M. Wall, R. A. Robbins, J. J. Harrison, F. De Cou, St. Paul; Thos. O'Neil, with D. Landreth & Sons; A. Tilton, Cleveland; J. A. Simmers.

THE DUTCH Steamer Maasdam, carrying Dutch bulbs, has put back disabled, thus delaying many lots two weeks or more.

CINCINNATI.—The project of a chrysanthemum show in this city this year has been abandoned.

NEWPORT, R. I.—W. A. Vanick, of the Newport Nursery Co., has returned from a European trip during the course of which he visited the leading nurseries of France, Germany and Austria.

HYDE PARK, MASS.—The annual fall exhibition of the Hyde Park Horticultural Society was held on Wednesday evening, September 20. The show was very creditable and in every way a success.

HAVERHILL, MASS.—The display of garden flowers at the seventy-third annual exhibition of the Essex Agricultural Society in this city was very extensive and proved to be one of the best departments of the fair.

BELLEVILLE, PA.—A severe hail storm, fortunately of short duration, visited this town on Tuesday, September 19, at 5 p. m. F. Burki lost three hundred lights of glass. Hartman Bros. also sustained considerable damage.

Z. DeForest Ely & Co.
WHOLESALE SEEDSMEN,
Growers AND Importers of Bulbs.
JOBBERS IN
Florists' Supplies,
1024 MARKET STREET,
PHILADELPHIA, PA.
Reg. Cable Address: DeForest, Phila.
Price lists to dealers on application.

Hybrid Perpetual Roses,
Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.
Price Lists to applicants. Address
WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

FALL BULBS, PALMS, ETC.
LILIUM CANDIDUM, large, plump, solid bulbs, per 100 $2.75; per 1000 $23.00.
FREESIAS, clean, large, healthy bulbs, first size $4.50; select $7.50 per 1000.
ROMANS, PAPER WHITE NARCISSUS, and a **FULL LINE** of all Fall Stock.
CHINESE NARCISSUS, genuine imported, ready, per 100 $5 50.
LILIUM AURATUM, genuine imported, ready, per 100 $8.00.
ROSE C. SOUPERT, 2½-inch, fine stuff, per 100 $3.50; 3½-inch, per 100 $8 00.
LATANIAS, 4-inch stuff, grown cold, well rooted, 3 to 5 character leaves, ready for 5-inch pots, per dozen, $4 00; per 100, $30.00.
PHŒNIX RECLINATA, 5-inch, good value at doz. $5.00.
PHRYNIUM VARIEGATUM, 3-inch, dozen $1.50; 4-inch dozen $4.00; 5-inch, dozen $6.00; 6-inch, dozen $9.00; 7-inch, dozen $12 00.
PANSY PLANTS, very fine, per 1000, from seed bed, $5.00.
BOUQUET GREEN now in stock, (order early), per 100 lbs. $5 50.
Vaughan's Seed Store,
148 W. Washington St., CHICAGO. 26 Barclay St., NEW YORK.

ROSES.
Fine healthy stock. Per 100 P. 1000
Perles, Mermets, The Bride, Sunset, Niphetos, Bon Silene, Souv. d'un Ami, Duchess of Albany, Mme. Cusin, Mme. de Watteville, from 3in. pots..... $8.00 $75.00
CARNATIONS. Fine, healthy stock,
PURITAN, best white, early and productive, **Aurora, Grace Darling, Lizzie McGowan, Golden Triumph, Constance, W. F. Dreer, Tidal Wave, J. R. Freeman, Silver Spray, Grace Wilder, Portia, The Century, John McCullough, Orange Blossom.**
Price, 1st size, $8.00 per 100; $70 00 per 1000.
2nd size, $6.00 per 100; $50.00 per 1000.
Daybreak, Pearl, Crimson Coronet.
Price, $10.00 per 100.
NOTE.—Our carnations have been kept sprayed and are in fine, healthy condition.
SMILAX, from 2¼-inch pots..... 2.50 20.00
Lots of other Fine Stock.
Send for new list.
WOOD BROTHERS,
Fishkill, N. Y.

The Grand New Forcing Rose,
"American Belle."
Prices and full particulars on application.
John Burton, Chestnut Hill, Philadelphia



ROSES WANTED
in exchange for Palms, Florida Plants, etc. Send for list of sorts, size, quantity and price.
Also all write for large **Catalogue.**
REASONER BROS.
Oneco, Florida.

Roses, Etc.
We offer in prime quality **ROSES** from 2-in. pots at $4.00 per 100; 3-in. pots at $6.00 per 100; of the following sorts, and many others, La France, White La France, Catherine Mermet, The Bride, Perle des Jardins, Niphetos, Mme Pierre Guillot and others, strong 2½-in. $6.00 per 100.
BOUVARDIAS.
Single and Double, all colors, 2 inch pots, $4.00 per 100; 4-inch pots $8.00 per 100.
CHRYSANTHEMUMS.
From $4.00 to $25.00 per 100; in all sizes. choicest sorts only.
VIOLETS.
Single and Double, 2-inch pots, $4.00 per 100. Prepared for winter forcing.
FERNS.
Pteris argyrea, 3-inch, strong, $6.00 per 100.
PANSIES.
Extra fine German and French sraiu, from 2-inch pots, $2.00 per 100. From seed boxes, $1.00 per 100.
DUTCH BULBS and LILIES at New York prices.

	Per 100
Petunias, double friuged	$ 4.00
Heliotrope Mme. Ducharte	4.00
Ampelopsis Veitchii	4.00
Jasmines, 6 sorts	4.00
Hibiscus, single and double	4.00
Geraniums, scented and variegated	4.00
Fuchsias, stock plants	5.00
Palms in variety, 3-inch pots	10.00
Begonias, stock plants	6.00

We have expert growers for each specialty, and guarantee satisfaction. ADDRESS
NANZ & NEUNER,
Louisville, Ky.

ROSES.

	Per 100	Per 1000
2000 Perle, 3-inch	$ 5.00	$40.00
1000 " 2½-inch	3.00	25.00
600 Bride, 2½-inch	3.00	25.00
1200 Mermet, 2½-inch	3.00	25.00
130 Waban, 2½-inch	3.00	
200 Hoste, 2½-inch	3.00	
150 Am. Beauty, 4-inch	10.00	
300 Mme. Testout, 3-inch	15.00	

BROWN & CANFIELD, Springfield, Ill.

Forcing Roses, FINE STOCK, IN 3-INCH POTS.
Perle, Mermet, Bride, Meteor, Bennett, Albany and La France. Price, $5 00 per hundred.
GEO. W. MILLER. Hinsdale. Ill.

BEAUTY and **BRIDESMAID,** fine 3-inch now ready for planting, $8.00 per 100. Also **Perle, Meteor, Cusin, Wootton, Soupert, Hoste, Sunset, Mermet** and **Bride,** $6 per 100. A splendid stock for late planters.
M. A. HUNT, Terre Haute, Ind.

ROSES BRIDES, MERMETS, BON SILENE, NIPHETOS, CUSINS, WATTEVILLES AND JACQUEMINOTS. **ROSES**
25,000 fine plants in 3-inch pots, at a bargain. Will quote you prices on application.
IF WANTED SPEAK QUICK.
A. N. PIERSON, CROMWELL, CONN.

Bulbs. Bulbs. Bulbs.

BEST STOCK AT MOST REASONABLE PRICES.

We guarantee to you **SOUND DELIVERY** at point of destination, accidents to carriers excepted. We give you **NET** prices of all goods if desired, showing you to a penny cost with all charges of freight, etc. included.

For Delivery NOW:

Auratum, Rubrum, Album, and 30 other sorts of Japan Lily bulbs. Great assortment of California BULBS.

Plants, for Decoration: Can be shipped throughout Fall by freight:
Araucaria excelsa in finest stock. Rhapis flabelliformis, or Humilis. Aspidistra variegata. Cyperus alternifolius, in strong clumps.

SEEDS. SEEDS. SEEDS.

Australian and California Palm seeds. Japan and California Conifer seeds. Flower seeds.

PAMPAS PLUMES. New Crop. Eulalia Japonica Plumes. Cycas revoluta Leave dried. Order NOW.

Orders must reach us by November 1st, as collections of stems are made during December only:

CYCAS REVOLUTA STEMS.

Will furnish the **long leaved Cycas** at lowest prices ever offered. Send for our Trade List. We furnish cheerfully any information desired, give estimates of cost, etc.

ADDRESS **H. H. BERGER & CO.,**

Established 1878 **SAN FRANCISCO, CALIFORNIA.**

MAMMOTH BULBS

LILIUM HARRISII

FOR EXHIBITION

Purposes and for growing **Specimen Plants.** Very choice and scarce.
PRICE, $25.00 per hundred.

Also a fine lot of 5 to 7, and 9 to 11.
PRICE, 5 to 7, $3.00 per hundred; $25.00 per thousand.
9 to 11, $12.00 per hundred.

F. R. PIERSON COMPANY,

TARRYTOWN-ON-HUDSON, N. Y.

HULSEBOSCH BROS.,

BULB AND PLANT GROWERS,

OVERVEEN, near Haarlem, HOLLAND.

	Per 100	1000
Lilium Harrisii, 4 to 5-inch in circ.	$1.75	$16.00
" " 5 to 7-inch in circ.	2.50	20.00
" " 7 to 9-inch in circ	4.75	42.00
Roman Hyacinths, top roots	3.00	24.00
" " selected	2.25	21.00
" " regular size	2.00	19.00
Italian, blush white Roman, selected	2.50	21.00
Freesia refracta alba	.75	5.00
Narcissus totus albus	.70	6.50
" " " grandiflorum	1.25	10.00
" Chinensis (Sacred Lily), extra	5.50	50.00
Single Tulips, mixed, gardening	.75	6.00
Double " " "	.90	7.00
Single " " extra fine.	.85	7.50
Double " " extra fine.	1.00	8.00
Single garden hyacinths, mixed.	2.25	18.00
Double " " "	2.50	22.00
Single forcing " "	2.50	21.00
Double " " "	3.00	25.00

Single and double named Hyacinths, Tulips, Crocus, etc., etc., at low rates.

A. HULSEBOSCH,

P. O. Box 3118. Warehouse, 58 West Street,

NEW YORK CITY.

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to

Seed Bags and Catalogue Envelopes.

NEW HAVEN, CONN.

BULBS! BULBS!

Lilium Auratum, Spec. Rubrum, Spec. Album, Lougiflorum, etc. Order now.

Callas, Callas, at lowest rates: Fresh Cut Cycas leaves, prices and sizes to suit all. Fresh imported Cycas, lowest prices. Camellias, Pæonias, Japan Maples, and for general Japanese stock seeds. Remember we guarantee sound delivery, still goods travel at owner's risk. Apply to

F. GONZALEZ & CO.,

Nursery and Greenhouses, 303 to 312 Wayne Street,
SAN FRANCISCO, CAL.

Always mention the AMERICAN FLORIST when writing to advertisers.

HYACINTHS, TULIPS.

Full assortment ready now. Our stock is A No. 1 in every way.

FREESIAS.

Select Stock. Per 100, 75 cents; per 1,000, $4.50.

PANSY SEED.

BARNARD'S FLORIST MIXTURE is popular wherever tried. Trade packet, 25 cts.; ⅛ ounce, $1.00.

W. W. Barnard & Co.

6 and 8 N. Clark Street, CHICAGO.

☞ Send for Fall Bulb Catalogue.
Mention American Florist

Bulbs.

New List now ready; free to applicants. Address . . .

August Rölker & Sons,

P. O. Station E. NEW YORK.

Bulbs & Plants.

FOR CATALOGUES, ADDRESS

C. H. JOOSTEN,

IMPORTER,

3 COENTIES SLIP, NEW YORK

Choice Lily of the Valley Pips.

Ernst Reimschneider, Altona, Hamburg.

For Fall Importation. Catalogues free on application to his sole agents.

C. C. ABEL & CO., P. O. Box 920, New York.

Watson's Corner

WHITE PEBBLES

for Chinese Narcissus.

So many of my customers have asked me for these I have now made arrangements to supply same, and offer them put up in strong two bushel bags, at 75 cents per bag; five bags $3.50, f. o. b. Philadelphia, bags included. You will like them.

Chinese Narcissus.

Fine lot, just in from Hong Kong, $2.00 per basket of 30; $6.00 per 100. These come packed in bundles of 120. Order by bundle when wanted in quantity.

☞ Try a sample bag of Pebbles and a basket of Narcissus—$2.75 for the lot. Mail orders filled promptly. Postal Note, Express or P. O. Orders, at my expense. Stamps accepted.

G. C. WATSON,

Wholesale Seedsman and Commission Merchant.

1025 Arch St., Phila., U. S. A.



Write for Wholesale List.

MICHEL PLANT AND BULB CO.,

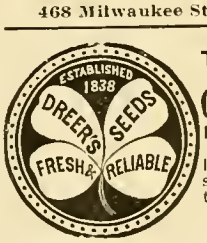
ST. LOUIS, MO.

Bulbs.

A complete stock now ready. Send for our new list of Bulbs, Supplies, etc., etc.

WISCONSIN FLOWER EXCHANGE,

468 Milwaukee St., Milwaukee, Wis.



TRY DREER'S

GARDEN SEEDS,

Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.

HENRY A. DREER,
Philadelphia, Pa.

Phœnix rupicola.

This useful and beautiful Date Palm in **EXTRA FINE PLANTS**, growing in from 7 to 10-inch pots, from $3.50 to $7.50 each, according to size.

EDWIN LONSDALE, Wyndmoor,
STATION "G," PHILADELPHIA.
(Chestnut Hill P. O.)

CATALOGUE PRINTING. ELECTROTYPING.

Done with expert ability for Florists Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.,
HARRISBURG, PA.

Toronto.

The Gardeners and Florists' Association held a lively meeting last Tuesday, which was better attended than the last three or four meetings have been. The final chrysanthemum show prize list was the principal business on hand; there were several pretty close votes which made things quite exciting. As usual of course the smallness of the prizes was brought forward, one member stating that an American friend of his thought that the Toronto gardeners and florists must be a lot of fools to show for such prizes as were offered. Well of course everyone would like to make the prizes higher, and if the association had a good balance at the bank or could fall back on a decent sized guarantee fund they would have been put higher, but as there is very little to fall back on and wealthy men are scarce in the profession, perhaps it is well to go slow at first and make sure of paying 100 cents on the dollar. It is a great deal pleasanter and easier getting up a prize list with lots of big prizes, but it is very unpleasant after the show to have only money enough to pay the prize winners 50 per cent of what they won.

In the two last shows held by the association circumstances seemed to conspire against their financial success, but at present there is no speck on the horizon and it is hoped that a surplus may be realized out of the coming show so that future shows may be run on a firmer foundation. It appears to your correspondent that if the members would do a little more work *altogether* and a little less talking and finding fault with what has been done the success of the show would be assured. E.

I was pleased to see Mr. Ewing's severe criticism of the arrangement and judging of plants at the Toronto Industrial Exhibition and hope it will be the means of a change. The section calling for the best display of plants in pots—what does it mean? If they were judged for artistic arrangement and effect, they had two most beautiful tables, but I certainly condemn the system of huddling together so that only the tips of the foliage are seen. My idea would be to show out clearly the beauty and symmetry of each plant as arrangement now is. There is no incentive to grow or exhibit a good specimen when an inferior article will do, as we can prop them up on barrels, boxes and blocks and hide their deformity.

I would suggest that at the next exhibition a certain number of tables be set apart for artistic effect for another class, call for 150 or 200 plants, best specimen, in pots; leave these two classes open to all; it would increase the prize list, but would pay the directors, as no department at the exhibition was better patronized than the "floral hall."

Another thing wants remedying—that dingy old hall, without light, heat or headroom to stage a specimen plant. With these alterations the exhibit this year would compare favorably with that of any city on the continent.

HOUSTON.

DO YOU WANT an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our trade directory and reference book.

Mention the American Florist when writing to advertisers on this page.

PANSIES.

THE BEST ARE THE CHEAPEST.

My customers say that mine are the best they can buy in all that goes to make good Pansies, **size, color, form and substance.** Try them, and you will say so yourself. They are better this season than ever, and if you don't want more, get a hundred for comparison with others you grow.

The **Plants** are good as well as the strain, and for the asking I will mail you an honest sample. **Price free by mail 75 cts. per 100, or $3.00 per 500; by express $5.00 per 1000.**

Half a Million ready during October. Cash with the order or C. O. D.

L. B. 496. **ALBERT M. HERR, LANCASTER, PA.**

Carnations, Violets, Pansies.

40,000 CARNATIONS.

Extra strong, healthy, field-grown plants. No rust.	Per 100
6,000 Grace Wilder	$ 6 00
3,000 Portia, 500 Fred Creighton, 600 Mayflower, 5,000 Orange Blossom, 4,000 Tidal Wave, 15,000 Hinze's White, 400 Anna Webb, 300 Silver Spray, 300 Garfield, 300 White Wings	5 00
Other varieties in small quantities.	
2,000 Marie Louise Violets, fine healthy stock, field-grown	7 00

The Jennings Strain of large-flowering and fancy Pansies, 65c. per 100 by mail; $5 per 1000 by express; 5000 $20. White and Yellow, separate colors, same price.

PANSY SEED. Finest mixed—pure white, yellow dark eye, each per trade pkt. 50c. and $1. Mixed per oz. $6. White or yellow $5 per oz.

Green's Farms is my nearest station on the line of New York, New Haven & Hartford R. R., 50 miles from New York, six minutes walk from depot.

Address E. B. JENNINGS,
Lock Box 254, SOUTHPORT, CONN.

CHOICE SWEET PEAS.

Being the largest growers of the above in the world the trade are invited to send a list of their requirements and secure low prices for Fall delivery.

SHERWOOD HALL NURSERY CO.
Menlo Park and San Francisco, Cal.

TOBACCO STEMS AND DUST.

STEMS—In 100 lb. bales, $1.00. In 500 lb. bales, $4.00. By the ton, $10.00.

TOBACCO DUST—A most valuable insecticide for Violets, Roses, Chrysanthemums, etc.; also for fumigating; In 100 lb. lots, $2.00, f. o. b.

Pye & Mueller,
P. O. Box 1066. KINGSTON, N. Y.

VIOLETS.

500 MARIE LOUISE.

Nice, healthy, clean and well rooted plants, from 3½-inch pots, $7.00 per 100

F. CALVERT & SON, Lake Forest, Ill.

CARNATIONS AND VIOLETS.

Strong, healthy plants The leading varieties of Carnations and Marie Louise Violets.

LOUIS A. GUILLAUME, East Onondaga, N. Y.

—OUR—

TRADE ✻ DIRECTORY

AND

Reference Book

WITH

SUPPLEMENT for 1893,

bringing the list of names and addresses up to date,

$2 00

AMERICAN FLORIST CO.
P. O. DRAWER 164. CHICAGO.

ZIRNGIEBEL'S Giant Market and Giant Fancy PANSIES,

are without question the most popular strains in cultivation up to date.

New Seed ready now, in trade packages of either strain, at one dollar each.

PLANTS FOR SALE.

Denys Zirngiebel,
NEEDHAM, MASS.

PANSIES.

Best mixture of German bedding varieties now ready, per 1000 $5.00; per 100 60c. We have also separate colors, ready in two weeks.

BRAUER & RICHTER,
McCONNELSVILLE, OHIO.

Big Pansies.

You can't miss it with the **Giant Market Strain.** It is superb. Strong, transplanted plants ready Sept. 25, at $1.00 per 100; $8.00 per 1000. Send your orders now.

WM. DEGNER, Muscatine, Iowa.

ZIRNGIEBEL GIANT PANSIES.

100,000 PLANTS, AT $5 00 PER 1000.

DENYS ZIRNGIEBEL,
Needham, Mass.

Pansies Worth Raising.

SEED, $1.00 per package of about 2,000 grains.

☞ Plants all sold.

CHRISTIAN SOLTAU,
199 Grant Ave., JERSEY CITY, N. J.

SUPERB PANSIES.

My "Rainbow Mixture"

is a combination of the very best strains in existence, and is sure to give satisfaction. Young plants 65 cents per 100 by mail; $5.00 per 1000 by express. Cash with order or C. O. D.

GEORGE CREIGHTON, Poughkeepsie, N. Y.

SPECIAL SEPTEMBER OFFER.

Extra Pansy Seed.

A grand collection of giant flowering varieties, carefully selected; receive high praise from florists; no finer strain offered anywhere. A liberal offer. Trade pkt. 500 seeds, 25 cts.; 3 pkts. 50 cts.; 7 pkts. $1.00.

JOHN F. RUPP, Shiremanstown, Pa.

COLUMBIAN PANSIES.

A limited supply of plants during the season, at 70c. per 100; $5.00 per 1000. It will pay you to send your address to

W. J. ENGLE,
Box 211, Dayton, Ohio.

When writing to any of the advertisers on this page please mention the American Florist.

Siebrecht & Wadley,

ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.

Palms,

ORCHIDS

Roses,

and New Plants.

FRESH DRACAENA CANES NOW READY.

ORCHIDS.

The Finest Stock in the World.

SANDER'S,

ST. ALBANS,

ENGLAND.

Thirty minutes from London.

Our Mr. A Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 295 Greenwich Street, New York City.

Established and Imported

ORCHIDS.

Ig. FORSTERMAN,

Newtown, N. Y.

CLEMATIS.

Large flowering, colors in variety, double and single, strong blooming plants. Plenty of Jackmanni and Henryi, best purple and white, $3.00 per dozen; $20.00 per 100. Send for list.

CYCLAMEN persicum splendens, blooming bulbs, $8.00 per 100.

Snowflake Daisy, double white, $1.00 per 100.

Longfellow Daisy, double red, $1.00 per 100.

F. A. BALLER, Bloomington, Ill.

VIOLETS. ROSES. VIOLETS.

Our violets are positively free from disease.

	Per 100	Per 1000
Violets Marie Louise, fine cuttings	$ 2.50	$25.00
Roses Gen. Jacqueminot, from 5-in. pots	8.00	75.00
Roses Gen. Jacqueminot, from 4-in. pots	6.00	55.00
English Ivies, 4 to 6 feet long, pot grown	5.00	

When ordering, give directions how to ship. Cash with order, 5 per cent. discount.

JOHN RECK, Bridgeport, Conn.

Fern

PTERIS TREMULA, in 2 and 2¼-inch pots, $4.00 per 100. $3.50 in 500 lots.

Cash with order. Address

R. WITTERSTAETTER,

SEDAMSVILLE, OHIO.

CYCLAMEN persicum giganteum. 3 inch pots $6.00 per 100

PANSIES, Mammoth Strains, 75 cts. per 100 $5.00 per 1000.

CARNATIONS, Dorner's Seedlings, $15 per 100 Daybreak $8.00 to $10.00 per 100 McGowan, Puritan, Wilder, and others, $8.00 per 100. Second size $6.00 per 100

Correspondence solicited.

Address **J. G. Burrow,**

FISHKILL, N. Y.

P. SEBIRE & SONS,

Nurserymen, USSY, Calvados, FRANCE.

A general assortment of Fruit Tree Stocks, such as Apple, Pear, Myrobolan Plum, Mahaleb and Mazzard Cherry, Angers Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, etc. The largest stock in the country. Prices very low. Packing secured. Catalogue free. Send for quotations before placing your order elsewhere. Agents for U. S. America and Canada.

C. C. ABEL & CO., P. O Box 920, New York.

JULES DE COCK'S NURSERIES

GHENT, BELGIUM.

OFFER TO THE TRADE OF GOOD PLANTS.

10,000 Araucaria Excelsa; 100,000 Begonia Bulbs.
30,000 Azalea Indica; 20,000 Azalea Mollis.
100,000 Palms, different sorts, all sizes.
10,000 Laurel Bays, Standards and Pyramids.

LOUIS BOEHMER. ALFRED UNGER.

Extract of Wholesale Catalogue 1893-'94.

L. BOEHMER & CO.,

4, 5 & 28 Bluff, Yokohama, Japan.

PLANTS.

	Per 100	
ACER POLYMORPHUM, the best red leaved variegated varieties, 18 inches to 2 feet	$15.00	silver.
" " " " " " 2 to 3 feet	18.00	"
AZALEA INDICA, single white, lilac, red, etc., strong bushy plants	15.00	"
ARDISIA CRISPA, beautiful red berries, 8 and 10-inch pot plants	20.00	"
CAMELLIA JAPONICA, fine plants out of pots, 15 to 18 inches high, double pink and red	15.00	"
" " " " " " " " variegated & white	20.00	"
DAPHNE ODORATA, pink or white, 18 in. high, beautiful, scented, early flowering shrub	15.00	"
GARDENIA RADICANS fl. pl.	20.00	"
" GRANDIFLORA flore pleno	20.00	"
MAGNOLIA CONSPICUA, pot grown	20.00	"
" OBOVATA, red, pot grown	20.00	"
" " purple, pot grown	20.00	"
" STELLATA, pot grown	20.00	"
" KOBUS, pot grown	15.00	"
" HYPOLEUCA, pot grown	15.00	"
" PARVIFLORA ERECTA, beautiful, scented	20.00	"
" " PENDULA, "	25.00	"
OLEA FRAGRANS, small yellow flower, very sweet scented shrub	20.00	"
PLECTOGYNE (Aspidistra) VARIEGATA, per 100 leaves	3.00	"
SYRINGA JAPONICA, pot grown	20.00	"
SCIADOPITYS VERTICILLATA, 1 to 1½ feet, open ground	25.00	"
" " 1½ to 2 feet, "	30.00	"
" " 2 to 2½ feet, "	35.00	"
" " 2½ to 3½ feet, "	45.00	"
DAVALLIA BULLATA Fern Designs, very nice	25.00	"
	Per 1000	
DIOSPYRUS KAKI, Japanese Persimmons, 6 best varieties including seedless, open ground, from 3 to 4 feet	$30.00	"
JAPANESE PLUM TREES, open ground, 3 to 4 feet	50.00	"
" GIANT CHESTNUT TREES, open ground, 3 to 4 feet	45.00	"
CITRUS (Limonia) TRIFOLIA, the best stock for grafting oranges, and an excellent hedge plant (evergreen and thorny), open ground, 1 to 1½ feet	7.50	"
PEAR SEEDLING, best stock for grafting, open ground, pencil thickness, 2 to 3 feet	7.50	"
ELÆAGNUS LONGIPES, a new Japanese fruit	40.00	"

PRICES ARE FREE ON BOARD IN YOKOHAMA.

There is no danger in shipping any goods from here to the United States, we can prove sound arrival through the best and largest firms. REMEMBER THAT YOU RECEIVE FOR 100 GOLD DOLLARS about 165 silver dollars' worth of goods at the present low exchange. Freight to any United States point only 1½ gold per pound.

WE HANDLE FIRST RATE STOCK ONLY.

BANKERS: Hongkong & Shanghai Banking Corp; Agencies: New York and San Francisco.

We are Headquarters for CYCAS REVOLUTA, the true long-leaved variety.

Collected Stems, Fronds and Roots cut off, per 1000 lbs. $50.

Please write to us before purchasing anywhere else, as we can give you best prices, and you can depend upon our packing, etc.

CABLE ADDRESS: **BOEHMER, YOKOHAMA.**

FICUS • ELASTICA.

An extra large stock of fine, strong plants.
Write for special prices.

ANDORRA NURSERIES, Chestnut Hill, Philadelphia, Pa.

E. G. HILL & CO.,

Wholesale Florists

RICHMOND, INDIANA.

S. A. F. REPORTS.

GOOD READING CHEAP.

I have on hand a number of surplus copies of the reports of proceedings at the New York, Buffalo and Boston Conventions of the Society of American Florists. All parties wishing to procure copies of either or all of these can have them by applying and enclosing 25 cents in stamps for each, as long as they last.

Address **WM. J. STEWART, Sec'y,**
67 Bromfield Street, BOSTON, MASS.

You Will all Want

The New Yellow Coleus GOLDEN CROWN,
As it takes all others yellows down;
And will soon be all the go,
Because so very easy to grow.

There is nothing Pale or Weak about it. You can't afford to run without it; $3.00 per doz. Orders booked now for delivery November 1st, or as soon as ready. Or Gibson's beautiful scented Hybrid Pansies, 2000 seeds $1.00. Or Gibson's superb well mixed Hybrid XX and XXX Mammoth Verbenas, 2000 seeds 60 cts. and $1.00. Trial packet of XXX for 10 cts. in stamps. No better for florists' use ever offered anywhere; our own growing from stock composed largely of Climaxer and Beauty of Oxford and the choicest selection from the thousands of our fine seedlings, florets immense, many of them will nearly cover a silver half dollar, and of exquisite beauty and fragrance, and richest imaginable colorings. Try a packet and realize all there is in the verbena to date. Or the finest Double Fringed Petunia (Dreer's Strain), hybridized by hand, 1000 seeds $1.50. Snow Crest Daisy, $5.00 per 100. Other specialties later. Cash with order please.

Address **J. C. GIBSON, Woodbury, N. J.**

Recent Legal Decisions.

Damages Recoverable for Freight Negligently Lost or Destroyed.

The measure of damages recoverable for property lost or destroyed through the negligence of a common carrier, as for instance a railroad company, is not limited to the valuation in the bill of lading, though a limit may be imposed upon the liability of a carrier for a loss not occuring through its negligence, and where such a contract is made there can be no recovery unless negligence on the part of the carrier is affirmatively shown. Lang v. Penna. Co. Sup. Ct., Pa., 20 L. R. A. 360.

At the Convention.

SMITH—Do you think of trying this system of automatic ventilation?

JONES—Naw. Had too much automatic ventilation now to suit me.

SMITH—How so?

JONES—Had three hail storms in two years.

Laying in a Supply.

CHOLLY—"I've just done a clevaw thing."

GEORGE—"What was it?"

CHOLLY—"I bought a lot of woses now when they ar cheap, so I won't have to get any in the wintah."—*Chicago News.*

FIELD GROWN CARNATIONS.

Fine healthy plants for **Winter Bloom.**

W. R. SHELMIRE,

CHESTER CO., AVONDALE, PA

Send for Circular.

CARNATIONS.

Healthy plants for winter blooming.
TUBEROSE BULBS, home-grown, by the thousand.
CUT FLOWERS of Carnations in season.

Chas. T. Starr,

AVONDALE, Chester Co., PA.

IT COSTS NO MORE TO

GROW GOOD CARNATIONS

THAN TO GROW POOR ONES.

We have a good stock of field-grown Carnations of all the best varieties. Send for price list.

Geo. Hancock,

GRAND HAVEN, MICH.

5000 FIELD-GROWN

CARNATIONS

Fine large clumps, have all the leading varieties, such as Portia, Fred. Dorner, Ferd. Mangold Silver Spray, Mrs. Fisher, Hinze's White, Tidal Wave, Delight, and 15 other fine varieties. Write soon and get choice. Will sell cheap for the next 30 days. First here first served. Address

MARION AND MAPLE HEIGHTS GREENHOUSES, Marion, Ind.

FIELD GROWN CARNATIONS.
Extra strong, large, healthy plants.

Silver Spray	$7.00 per 100
Daybreak	8.00 "
Garfield	6.00 "
Hinze's White	5.00 "
De Graw	4.00 "
Marie Louise Violets	5 00 "

Crabb & Hunter, 509 Madison Ave., Grand Rapids, Mich.

FIELD-GROWN CARNATIONS
of the following varieties:
Hinze's White, Silver Spray, White Wings, Lizzie McGowan, Grace Wilder, Portia, Tidal Wave, J. J. Harrison, Starlight, Golden Gate, and other varieties; good healthy plants, free from disease and in bud and bloom. Send for price list.

J. A. TRACHT & SON, Galion, Ohio.

FIELD GROWN CARNATIONS

Roses & Smilax, from 2½ & 3-in. pots.

KEMBLE FLORAL CO., Oskaloosa, Iowa.

CHEAPEST EVER OFFERED.

FIELD-GROWN CARNATIONS, extra fine,
$4.00 per 100; $35.00 per 1000.

Hinze's White, Portia, Garfield, Silver Spray, Mrs. F. Mangold, pink.

FICUS ELASTICA, 20 to 24 inch.....$6.00 per dozen.
" " 15 to 18 inch..... 4 00 "

ADDRESS **GEORGE A. HEINL, 337 Summit Street, TOLEDO, OHIO.**

50,000 CARNATIONS.

Portia, Lizzie McGowan, Garfield, Hinze's, Pr. of Kennett, Hinsdale, Lamborn, Mrs. F. Mangold, Grace Wilder. Fine, stocky, field-grown plants; perfectly healthy. Shipped by our improved method of light packing to almost any part of the country. **Price, $5 00 per 100.**

POSITIVELY NO RUST. NEVER HAVE HAD IT ON OUR CARNATIONS.

ROSES. We still have a few thousand strong, healthy and vigorous plants. PERLES, in 4-inch pots, $10 per 100. PERLES, MERMETS, BON SILENE, SAFRANO, LA FRANCE, 3-inch pots, $7.00 per 100.

J. L. DILLON, BLOOMSBURG, PA.

CARNATIONS

Strong, healthy field-grown plants.

PORTIA	$ 7 00 per 100
LIZZIE McGOWAN	7 00 "
GRACE WILDER	7 00 "
TIDAL WAVE	8 00 "
ANNA WEBB	8 00 "
HINZE'S WHITE	8 00 "
GARFIELD	8 00 "
FRED. DORNER	8 00 "
AURORA	8 00 "
NELLIE LEWIS	10 00 "
DAYBREAK	12 00 "

MARIE LOUISE VIOLETS, $3, $4 and $5 per 100.

ADDRESS **N. S. GRIFFITH,**

Jackson Co. INDEPENDENCE, MO.

Independence is well located for shipping, being 8 miles East of Kansas City, Mo.

40,000 Carnations.

FIELD-GROWN. FREE FROM RUST.

	Per 100
7000 Grace Wilder	$ 6.00
5000 Portia	5.00
3000 Tidal Wave	5.00
5000 Orange Blossom	5 00
2000 Fred. Creighton	5.00
2000 Silver Spray	5.00
500 Lamborn	5.00
500 Anna Webb	5.00
500 Garfield	5.00
500 White Wings	5.00
500 Snow Bird	5.00
500 Lizzie McGowan	5.00
200 Mayflower	5.00
15,000 Hinze's White	5.00

Also extra fine strain of Pansies. Large flowers and fancy colors. Large flowering plants..... 1.00 per 1000, $8.00.
Cold frame size, by mail.....per 1000 $5.00; .65
CASH WITH ORDER.

Address **GEO. B. WHITEHEAD,**
Lock Box 116. **Greens Farms, Conn.**

FIELD-GROWN CARNATIONS.

Strong, healthy plants. Mrs. Fisher, Portia, Garfield, Hinze's White, L. L. Lamborn, Lizzie McGowan, Buttercup, Golden Gate.

Roses, best forcing sorts, from 3-inch pots. Heinl's Monthly Pelargonium, and Cyclamen, from 2½ and 3-inch pots Low cash prices on above stock on application. I will take Ferns and Double White Primrose in exchange.

Niphetos and Perle, from 2-inch pots, $2.00 per 100; $15.00 per 1000.

Smilax, from 2-inch pots, $10.00 per 1000.

Cash with order. Sample free.

JOSEPH HEINL, JACKSONVILLE, ILL.

FIELD-GROWN CARNATIONS.

I offer the following varieties in quantity; all strong, healthy plants, ready Sept. 10th:

Mrs. Fisher, L. L. Lamborn, Puritan, Lizzie McGowan, White Dove, Angelus, Daybreak, Mrs. Ferd. Mangold, Thos. Cartledge, Emily Pierson, Wm. F. Dreer, Golden Gate, Peachblow Coronel, Cæsar. A number of other kinds in small lots. Correspondence solicited.

C. J. PENNOCK, The Pines, Kennett Square, Pa.

8,000 FIELD-GROWN CARNATIONS

$6.00 per 100; $50.00 per 1000.

PROBST BROS. FLORAL CO.,

1017 Broadway, KANSAS CITY, MO.

FIELD-GROWN

CARNATIONS

MRS. FISHER, MRS. CARNEGIE,

and a general line of other standard sorts and new varieties. Fine, healthy plants, $5.00 to $7.00 per hundred.

CASH WITH ORDER.

Fred. Bürkii,

Bellevue, Allegheny Co., Pa.

FIELD-GROWN

CARNATIONS

2000 Daybreak	per 100	$10.00
500 Mangold	"	5.00
1000 Wilder	"	5.00
500 Harrison	"	5.00
5000 Hinze's	"	5.00
1000 Garfield	"	5.00
500 Portia	"	5.00
500 McGowan	"	5.00

VIOLETS. 5,000 Marie Louise, per 100, $5.00. 10 per cent. discount for cash with order.

NATHAN SMITH & SON,

167 W. Maumee St., Adrian, Mich.

CARNATIONS

Strong and healthy, for Immediate Delivery.

	Per 100
MRS. FISHER	$ 6.00
McGOWAN and PORTIA	8.00
AURORA	12.00
THOS. CARTLEDGE & BUTTERCUP	15.00

10 per cent. off for 500 plants; 15 per cent. off for 1000 plants.

F. M. PENNOCK, Charlestown, Jefferson Co., W. Va.

FIELD-GROWN

CARNATIONS.

30,000 FIRST-CLASS PLANTS.

Nellie Lewis, Puritan, Portia, McGowan, American Flag, Daybreak, Annie Wiegand, J. J. Harrison, Hinze's White, Tidal Wave and other varieties.

Send us a list of what you want, and get our *Special low* prices.

VICK & HILL, Rochester, N. Y.

2000 FIELD-GROWN CARNATIONS

Best winter blooming sorts; fine plants, full of buds, at $8.00 per 100.

The same from 5 and 6-inch pots, $12.00 per 100. Cash with order.

☞ Plants shipped same day orders are received.

HENRY SMITH FLORAL CO.,

130 Monroe Street, GRAND RAPIDS, MICH

ASPARAGUS PLUMOSUS NANUS.

HERE THEY ARE!

And look at the price for fine plants, in 4-inch pots, good enough to retail this winter for a dollar each. No florist should be without this salable plant.

$20.00 PER 100.

Cash with order or C. O. D.

ALEX. SCOTT,

Balto. Co., Lauraville, Md.

Mention American Florist.

PALMS.

150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

Address **GEORGE WITTBOLD,**

1708 N. Halsted St., CHICAGO.

Association "Flora"

BOSKOOP, HOLLAND

NURSERIES.

Roses, Clematis, Shrubs, Azaleas, Palms, Herbaceous Plants, Bulbs, Etc.

Catalogue on Application.

P. OUWERKERK,

206 Cambridge Ave., JERSEY CITY, N. J.

Carnations

Field-grown, PORTIA, MRS. F. MANGOLD, GARFIELD, etc., cheap.

SMILAX, from 2½ inch, $1.50 per 100.

ROOTED CUTTINGS of Geraniums, Carnations, and general greenhouse stock in season, $1 per 100.

CUT SMILAX, 6 foot strings, $15.00 per 100.

CUT CARNATIONS, long, $1.00 per 100.

DENVER CITY NURSERIES, South Denver, Colo.

HYDRANGEAS, SMILAX AND CARNATIONS.

HYDRANGEAS, strong, from open ground, Otaksa and others, 3 to 6 heads, $8.00 and $10.00 per 100.

CARNATIONS, Portia, strong clumps, from open ground, $6 00 per 100; $50.00 per 1000.

SMILAX, extra strong, 3-inch pots, $3.00 per 100; $23.00 per 1000.

PAUL BUTZ & SON, New Castle, Pa.

CHOICE STOCK FOR FLORISTS.

Acalypha tricolor, strong stocky plants, from bed, $10.00 per 100

Sanchezia nobilis variegata, grand new bedding plant rivaling the croton, free grower, strong pot plants, $2.00 per dozen.

Echeveria secunda glauca, $2.00 per 100.

Cannas—A. Bouvier, J. D. Cabos, Capt. Suzzoni, Paul Marquant, $20.00 per 100. Cash.

WM. TRICKER. **DONGAN HILLS NEW YORK.**

500 CROTONS.

Nice strong plants; average height 12 inches. Best varieties. For sale at a low price.

AUG. S. SWANSON,

ST. PAUL, MINN.

THE PERFECT DRAINAGE

BENCH TILE

For circulars, etc., address

W. P. Wight, Upland Green Houses

Send your business card. **MADISON, N. J.**

SPECIAL -$10.00- OFFER,

FOR A LIMITED PERIOD ONLY.

To introduce our specialties we make this special offer of

1 STOTT DISTRIBUTER.

1 STOTT SPRAYER (The best made.)

20 lbs. KILLMRIGHT (Non-poisonous, but Death to Insects.)

FOR $10 CASH.

Will clean your Greenhouses and out-door plants of Aphis, Mealy Bug, Caterpillar and other insects. Order through your seedsman, or direct of

ENDORSED BY LEADING FLORISTS EVERYWHERE.

WITH PROPER USE, SATISFACTION GUARANTEED.

THE STOTT GARDEN IMPL'T CO.,

136 Liberty Street,

NEW YORK.

TO STOTT GARDEN IMP'T CO., 136 Liberty Street, New York.

Dear Sirs:—We have been using your **Distributer and Killmright** for six months and consider it a good thing. It is the best thing ever got out. For roses it is particularly good. It cures a rose plant of black spot and mildew and keeps them in a healthy and growing condition. We never use tobacco smoke now. It will certainly ultimately kill the mealy bug. We will keep it right along and want nothing else. Signed, BOLANZ BROS., Akron, O.

3,000 Azalea Indica,

Full of buds, best kinds, in splendid condition,

JUST ARRIVED.

MUST BE SOLD AT ANY PRICE.

LUDWIG SCHILLER,

German Hort. Department, WORLD'S FAIR.

HOW TO GROW CUT FLOWERS.

A PRACTICAL TREATISE ON

THE CULTIVATION OF THE ROSE,

And Other Flowering Plants for **Cut Flowers**, sent to any address upon receipt of **$2.00.** **M. A. HUNT, Terre Haute, Ind.**

Increase Your Business

by fostering an interest in plants and flowers among the people in your vicinity. You can best do this by getting subscribers to

GARDENING . . .

which tells people how to get the most satisfaction out of their gardens, and stimulates them to enlarge and extend their gardening operations.

$1.00 A YEAR is the subscription price of this paper, which is issued twice a month, is handsomely and truthfully illustrated, is thoroughly practical, absolutely free from wind and gush and grinds no axes for anyone.

SPECIAL LOW RATE to florists who will act as agents. We want an agent in every city and town in America. Write for terms now to

THE GARDENING CO.

Monon Building, CHICAGO.

LITTLE'S ANTIPEST.

— A —

Valuable Discovery of the 19th Century.

SILVER MEDAL AWARDED

— BY THE —

CALIFORNIA STATE FAIR OF 1890.

This preparation is a sure destroyer ot the **Scale, Wooly Aphis** and **Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure** and **Cheap.** No fruit grower or florist should be without it.

Send for Circulars and Price List.

R. W. CARMAN, General Agent,

291 AMITY STREET,

FLUSHING, Queens, Co., N. Y.

The Edible Puff Ball.

ED. AM. FLORIST:—Through an article in the reports of the Department of Agriculture of two years ago I discovered that the common Puff Ball of the woods is an edible fungus, and last year had many good meals of them, and of late have found and eaten many fine ones; while they are very substantial they are in flavor as dainty as a mushroom. Finding how much good food there is in one I have thought it possible that among the innumerable readers of the FLORIST there might be some one who could tell through its columns if it is possible to cultivate them, and how. W. G. J.

Ithaca, N. Y.

The Giant Puff Ball mushroom (Lycoperdon giganteum) grows hereabout in great abundance, coming up at this time of year in the open fields and in thinly shaded places, but not in heavily shaded woods or grounds, and also in the hard roads, and it is generally known to be not only edible but very good to eat. At the same time it is very little used, not even by those who know of its fine edible nature; in fact the people don't catch on to any enthusiasm in the matter. I know of no systematic attempt at cultivating it artificially. If its cultivation could be readily accomplished persons fond of the puff balls might grow them for their own gratification, but before any serious attempt should be made to grow them for market, it would be well to get the public enthused into using the wild ones, and thereby whet their appetites for the cultivated ones. W. F.

Long Island.

Educating the Public.

LADY CUSTOMER—What is the price of this chrysanthemum?

FLORIST'S CLERK—That big one is $2. It's a fine crischyanthem.

LADY CUSTOMER—I notice you pronounce the name differently from what I imagined to be correct. Is *crischyanthem* right?

FLORIST'S CLERK—Yes mum. Certainly mum. We perfessionals ought to know mum.

LADY CUSTOMER—Of course. That is quite true. Thank you for your information.



WHITE DOVES

FOR FLORISTS.

Largest and finest stock in the United States. Write for prices to

S. J. RUSSELL,

850 Montgomery St., Jersey City, N. J.

For sale by all first-class dealers in Florists' Supplies.

Mention American Florist.

HUNTINGTON SEED CO.

Florists' : Supplies,

66 E. WASHINGTON ST.,
INDIANAPOLIS, IND.

Standard Flower Pots, Dried Grasses, Fancy Baskets, Metal Designs. Trade Catalogue mailed free.

JAS. H. SCULL,

CRONLY, N. C., U. S. A.,

— Wholesale Dealer in —

HOLLY (EVERGREEN) **Holly Christmas TREES.**

Fancy decorated Pine Cones, Long Needle Pines, Decorating Bouquets, Mistletoe, Bay Trees, etc., etc. Write for low prices. Correspondence solicited.

A FIRST-CLASS

Certificate of Merit

—TO—

H. BAYERSDORFER & CO.

For the Best Exhibit of

FLORISTS' SUPPLIES.

The only Certificate of Merit awarded for Florists' Supplies at the S. A. F. Convention at St. Louis.

OUR FALL SPECIALTIES:

Celluloid Flower Baskets;
Pot Covers and Pedestals,
Ferneries in Nickel, Gold, Silver and Bronze.

The Latest Novelties in French and German

METAL WREATHS,
CYCAS LEAVES,
WHEAT SHEAVES.

NEW STOCK OF IMMORTELLES JUST ARRIVED PER S. S. SWITZERLAND.

Lowest Prices furnished on application.

H. Bayersdorfer & Co.,

56 N. 4th St.,
PHILADELPHIA, PA.

WHOLESALE ONLY.

CUTS!



Wood Engraving,
Zinc Etching,
Half-Tone,
Wax Engraving, Photo-Engraving,
Designing.

MANZ & CO.,
183 Monroe Street, CHICAGO. ENGRAVERS.



Immortelles, white and other colors, at $3 the dozen bunches. Natural yellow, at $2.25.

Cycas Leaves (Sago Palms), natural prepared, equal to fresh cut in appearance, from 28-in. upwards, at 40c., 45c., 50c., 60c., 75c. and $1.00 each, according to length.

Metal Designs, Wreaths, Crosses, Anchors, etc. in the latest French styles, from 50 cents net apiece upwards.

Baskets of all styles, Plain and Fancy, for School Commencements, Dinners, Receptions, Favors, etc.

Supplies of all kinds, such as Bouquet Papers, Wax Paper, Foil, Everlastings, Letters, Wire Designs, Funeral Sheaves, Doves, etc. For prices consult our

New Trade List out, mailed free.

August Rölker & Sons,

136 & 138 W. 24th St., P. O. Station E. **New York.**

BOSTON FLORIST LETTER CO.,

13 Green Street, BOSTON, MASS.

Address all correspondence to 1 Music Hall Place.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1½-inch and 2-inch, $2.00 per 100. Patent fastener with each letter.

With orders for 500 letters we give away a nicely stained and varnished box. See cut in next week's American Florist.

Our letter is handled by all the wholesalers in Boston.

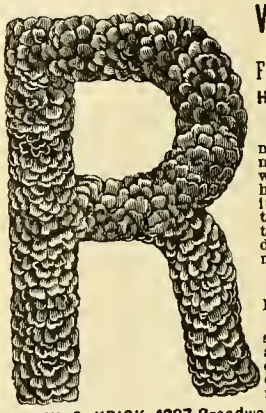
AGENTS: Marschuetz & Co., 25 N. 4th St., Philadelphia, Pa.; A. Rolker & Sons, New York; F. E. McAllister, 22 Dey St., N. Y.; Ernst Kaufmann & Co., 113 North Fourth Street, Philadelphia; H. Bayersdorfer & Co., Philadelphia, Pa.; A. D. Perry & Co., 33 Warren Street, Syracuse, N. Y.; A. C. Kendal, 115 Ontario St., Cleveland, O.; E. H. Hunt, 79 Lake St., Chicago; Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.; H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.; T. W. Wood & Sons, 6th and Marshall Sts., Richmond, Va.; Jas Vick's Sons, Rochester, N. Y; Dan'l B. Long, Buffalo, N. Y.; C. A. Knehn, St. Louis; F. C. Huntington & Co., Indianapolis, Ind.; Z. De Forest Ely & Co., 102 Market St., Phila., Pa.

J. A. Simmers, Toronto, Ont., Agt. for Canada.

WARNING.

A party in Williamsport, Pa., named Chas. E. Montgomery, is making and offering for sale letters which are an infringement upon our patent, and are also much inferior to those manufactured by us. We have notified them of suit unless they desist at once. Buy no letters except through our authorized agents.

BOSTON FLORIST LETTER CO.,
1 Music Hall Place, Boston, Mass.



W. C. KRICK'S

PATENT

Florists' Letters, Etc.

Highest award wherever exhibited.

These Letters are made of the best immortelles, wired on wood or metal frames having holes drilled in them to insert toothpicks, by which to fasten them in the design. All infringements prosecuted.

2-inch Letters, $3 00 per 100. Postage, 15c. per 100.

Before purchasing send for free sample and Catalogue and compare with any other letter in the market.

W. C. KRICK, 1287 Broadway, BROOKLYN, N. Y.

Agents:—J. C. VAUGHAN, Chicago, Ill.; H. BAYERSDORFER & CO., Phila., Pa.; N. STEFFENS, N. Y.; AUG. ROLKER & SONS, N. Y.; ED. S. SCHMID, Washington, D. C.; JAMES VICK'S SONS, Rochester, N. Y.; T. W. WOOD & SONS, Richmond, Va.; J. A. SIMMERS, Toronto, Ont.

MARSCHUETZ & CO.,

Florists' Supplies,

23 & 25 N. 4th St., PHILADELPHIA, PA.

Send for Catalogue.

WATER

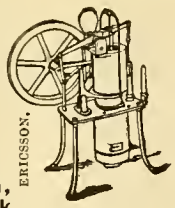
For Your GREEN HOUSE, ROSE HOUSE, NURSERY,

Conservatory, Lawn, House, Garden, Stock or any other purpose.

Send for Illustrated Catalogue OF THE

DE LAMATER-RIDER AND DE LAMATER-ERICSSON

PUMPING ENGINE.



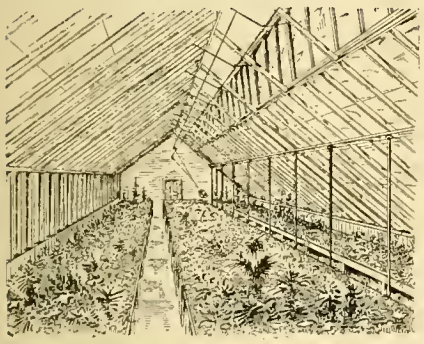
HOT-AIR PUMPING ENGINE.

Their operation is so simple and safe that a child can run them. They will pump water from shallow streams or any kind of well. They can be arranged for any kind of fuel. Capacity 1,500 to 30,000 gallons of water a day, according to size.



The De Lamater Iron Works,
87 South Fifth Avenue,
NEW YORK, N. Y.

THE CHAMPION



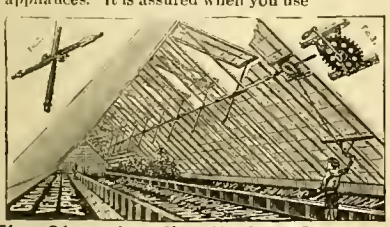
Automatic Ventilator

The cheapest, easiest to operate, and by far the best machine in the market. Don't buy a Ventilator until you have seen my illustrated descriptive circular, which will be sent you free, giving prices, etc. Also Champion Soil Pulverizer and Sifter.

Address, E. E. WOLF,
Box 114. SPRINGFIELD, O.

UNIFORM VENTILATION

is something you cannot secure with all ventilating appliances. It is assured when you use



The Champion Ventilating Apparatus

SIMPLE, DURABLE, EFFICIENT, CHEAP.

Circular is yours for the asking. Address
AMERICAN ROAD MACHINE CO.,
. . . . Kennett Square, Pa.

Mention American Florist.

EVANS' IMPROVED

CHALLENGE VENTILATING APPARATUS

Write for Illustrated Catalogue.

QUAKER CITY MACHINE WORKS, Richmond, Ind.

FLORAL DESIGNS

The Cut Flower Worker's Friend. Fine book of 160 pages. Send $3.50 for it, to
J. HORACE McFARLAND, Harrisburg, Pa.

Victory! Victory! Victory!

The only Certificate of Merit awarded for ventilating apparatus at the St. Louis Convention was to the

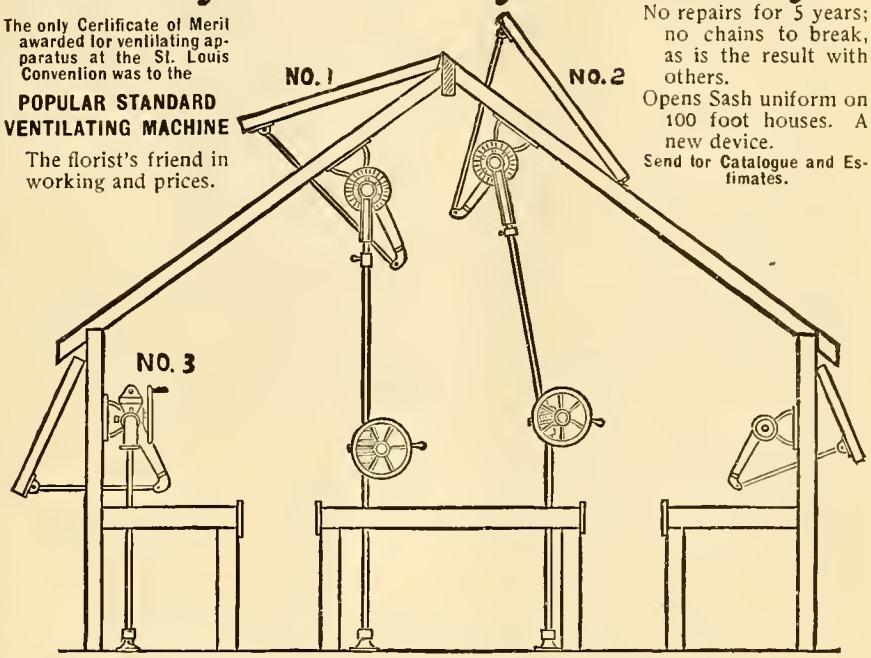
POPULAR STANDARD VENTILATING MACHINE

The florist's friend in working and prices.

No repairs for 5 years; no chains to break, as is the result with others.

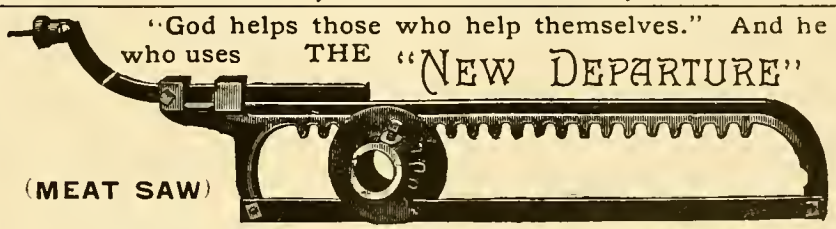
Opens Sash uniform on 100 foot houses. A new device.

Send for Catalogue and Estimates.



E. HIPPARD, YOUNGSTOWN, OHIO.

"God helps those who help themselves." And he who uses THE "NEW DEPARTURE"



VENTILATING APPLIANCE

helps himself and those who help him in his labors, and is therefore doubly blessed. Send for price and description.

J. D. CARMODY, Evansville, Ind.

Or call and see the man and machine at his greenhouse office, located on the lawn west front of Horticultural Building, World's Fair grounds, Chicago, Ill.

THOS. W. WEATHERED'S SONS,

INCORPORATED.

Horticultural Architects and Hot Water Engineers

Send for Catalogue, enclosing 4 cents in stamps.

No. 244 Canal St., NEW YORK CITY.

J. N. STRUCK & BRO.

Manufacturers of

• CYPRESS •

Greenhouse Material,

LOUISVILLE, KY.

Send orders for . . .

CLEAR CYPRESS

Greenhouse Material

from bottom of gutter up.

Correspondence solicited. Estimates cheerfully furnished.

LYMAN FELHEIM, ERIE, PA.

GURNEY Hot-Water Heaters FOR Greenhouses.

Send for a copy of our book "How best to heat our houses."

GURNEY HOT-WATER HEATER CO.

163 FRANKLIN ST., BOSTON.

Branch Office: 59 Wabash Avenue, Chicago, Illinois. Selling Agencies: Johnson & Co., 71 John St., New York City. J. C. F. Trachsel, 246 Arch St., Philadelphia

Mention American Florist.

OUR

Sash Lifter AND Hinges

will do the work and cost you less than any other. Send your name and address and we will mail you description and price.

BAY STATE HARDWARE CO
272 Freeport Street, BOSTON, MASS.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

Minneapolis.

The floral display at the recent exposition was arranged in three sections; the first—from Monday to Tuesday—was devoted to table decorations and parlor bouquets; the second section—from Wednesday to Friday—to original designs; the third section—from Friday to Sunday—to cut flowers and baskets. The exhibitors were R. J. Mendenhall and E. Nagel & Co. of Minneapolis and Aug. S. Swanson of St. Paul, and though the participants were few in number, the exhibits were excellent and were much appreciated by the public.

Premiums were awarded as follows: Table decoration, 1st, $100, E. Nagel & Co.; 2d, $50, Aug. S. Swanson. Parlor bouquets, 1st, $10, E. Nagel & Co.; 2d, $5, R. J. Mendenhall. Original design, 1st, $50, Aug. S. Swanson; 2d, $30, E. Nagel & Co. Cut flowers, 1st, Aug. S. Swanson; 2d, E. Nagel & Co. Basket, 1st, E. Nagel & Co.

Am sorry to report that there will be no chrysanthemum show here this year. Our society has dropped into a lifeless condition. Hope it will exhibit its old life and vigor again soon, but it is hard to say when this will be. N.

Flowers as Political Badges.

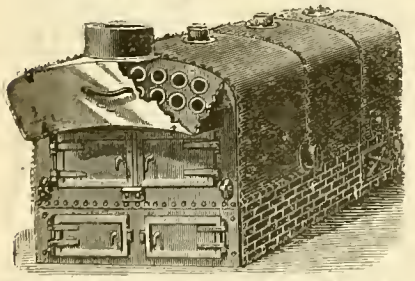
In a recent election in Vienna the adherents of one candidate adopted a white rose as a distinguishing badge, and their opponents thereupon used a yellow rose for the same purpose, and as a consequence the demand for white and yellow roses during the campaign was enormous. A correspondent writes that this would not only be more pleasing than silken or metal badges but would throw considerable business in the way of the florist if introduced in this country.

Bulbs and Bantams.

The following adv. was clipped from a daily paper and sent us by one of our subscribers, who thought it would serve to amuse our readers:

GIVEN EVERY customer, plants, bulbs, *bantam chickens*; tulip bulbs, blooming size, three dozen 25 cents; plants, bulbs, cut flowers cheap.

KROESCHELL BROS.
IMPROVED
Greenhouse & Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all aronnd front, sides and back). Write for information.

STANDARD FLOWER POTS.
Price List.

2 -inch,	Per 1000 $3.25	7-inch,	Per 100 $ 3.50
2½-inch,	" 3.50	8-inch,	" 5.00
2½-inch,	" 4.00	9-inch,	" 7.50
3 -inch,	" 5.00	10-inch,	" 10.00
3½-inch,	" 7.25	11-inch,	" 15.00
4 -inch,	" 9.00	12-inch,	" 20.00
5 -inch,	" 13.80	14-inch,	" 40.00
6 -inch,	" 22.00	16-inch,	" 75.00

Terms cash, f. o. b. Address
HILFINGER BROS. POTTERY, Fort Edward, N. Y.



Mention American Florist.

THE "LOCKLAND"
Sash Bars
ARE ALWAYS SATISFACTORY.
This cut represents our improved Clipper Bar for Butted Glass roof—putty to be used under glass only.
GUTTER MATERIAL, RIDGES, SASH, ETC.
The finest CLEAR CYPRESS used.
Write for circulars and estimates. . . .
LOCKLAND LUMBER CO.
Lockland, O.

"Standard" Flower Pots.
As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address
The Whilldin Pottery Company,
BRANCH WAREHOUSES: 713, 715, 717 & 719 Wharton St., Philadelphia, Pa.
Randolph Ave. and Union St., Jersey City, N. J.
Jackson Ave. and Pearson St., Long Island City, L. I.

STANDARD FLOWER POTS
Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.
A. H. HEWS & CO., N. Cambridge, Mass.

Standard Flower Pots.
We wish to notify the trade that this summer we have made great improvements in machinery and have also discovered a better clay, so that we are now manufacturing FLOWER POTS that can't be beat. We have the assurance of a host of our customers, that our make are the best in the market. Bear in mind that freight rates are very low from this point, and we claim that our way of packing saves you freight charges. Send for circulars, or we will send you figures on any quantity you want.
SIPFLE, DOPFFEL & CO., SYRACUSE, N. Y.

STANDARD FLOWER POTS.
OLD RELIABLE MAKE OF
ELVERSON, SHERWOOD & BARKER.
Write for Catalogue and Price List.
PITTSBURGH CLAY MFG. CO. New Brighton, Pa.

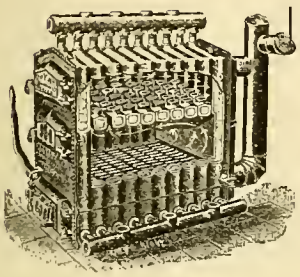
STANDARD FLOWER POTS
Our new **Pottery,** new **Machinery,** the very **best Clay** in the **Country,** and our new **Patent Kilns,** all combined, make the **best Standard Pot in the market.** Send for price list.
PARMENTER MF'G COMPANY,
GEORGE MESSINGER, Manager. East Brookfield, Mass.

D. C. SCHOFIELD & CO.,
New Brighton, Pa.,
are in their new factory, manufacturing, this month, six times as many "STANDARD" FLOWER POTS as they made last season, in a month.
WRITE FOR PRICES.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

WHEN writing our advertisers please use one of your printed business letter heads or enclose your business card.

ROYAL HEATERS
TRADE MARK
UTICA, N.Y.



HART & CROUSE,
UTICA, N. Y.

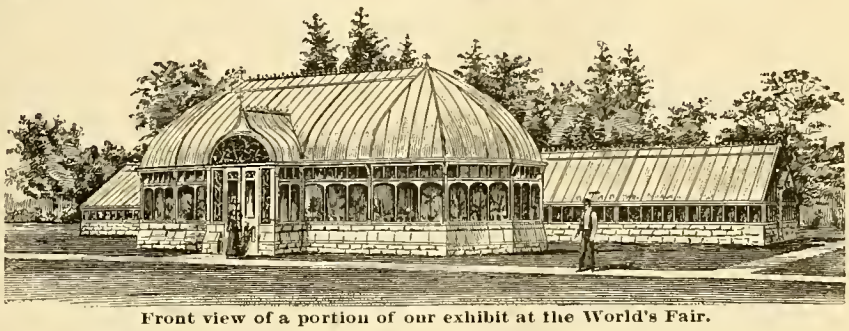


SCOLLAY'S
IMPROVED
PUTTY BULB,
For Glazing Sash, Etc.
— ALSO THE —
Patent Plant Sprinkler
For sale by your Seedsman, or sent, postpaid, for $1.00.
JOHN A. SCOLLAY,
74 & 76 Myrtle Ave.,
BROOKLYN, N. Y.
Send Stamp for Catalogue.

SMILAX AND ASPARAGUS
TRAINED ON GREEN
SILKALINE
Are in the best possible condition for the market.
For particulars address
JOHN C. MEYER & CO.,
289 DEVONSHIRE ST., BOSTON, MASS.

TRADE MARKS. COPYRIGHTS.
Geo. P. Sandlers
SOLICITOR OF U. S. AND FOREIGN PATENTS,
Atlantic Building, Washington, D. C.
(Send sketch or model for free examination as to patentability.)

LORD & BURNHAM CO.
Horticultural Architects and Builders,
STEAM AND HOT WATER HEATING ENGINEERS.
☞ Plans and estimates furnished on application.



Front view of a portion of our exhibit at the World's Fair.
. . . SEND FOUR CENTS POSTAGE FOR ILLUSTRATED CATALOGUE. . . .
LORD & BURNHAM CO., Irvington-on-Hudson, N. Y.

H. M. HOOKER COMPANY,
57 and 59 W. Randolph Street, CHICAGO,
NATURAL GAS MADE GLASS
FOR GREENHOUSES.
Write for latest prices.

D. H. ROBERTS,
159 and 161 S. Fifth Avenue, - NEW YORK,
NATURAL GAS MADE GLASS,
FOR ROSE HOUSES, CONSERVATORIES, ETC., ETC.
☞ Look at our WORLD'S FAIR EXHIBIT in Horticultural Building.

FRENCH GLASS For CONSERVATORIES, ROSE HOUSES, Etc. Etc.
VANHORNE, GRIFFEN & CO.,
Importers of PLATE and WINDOW GLASS. Manufacturers of BENT GLASS and FRENCH MIRRORS.
131-133-135-137 FRANKLIN STREET, NEW YORK.
Note—Imported Glass is used in the best grade of Greenhouse building.



Pat. 1882, '85, '86, '88, '90, '91.
FOR WATER, AIR, STEAM, ACIDS, OILS, LIQUORS, GAS, SUCTION,
And for any and every purpose for which a hose can be applied.
Sizes, ⅛-inch to 42 inches diameter.
The making, vending or use of any Serviceable Armored Wire Bound Hose not of our manufacture is an infringement on one or more of our Patents. The rights secured to us render each individual dealer or user responsible for such unlawful use with all the consequences thereof. For prices and discounts address WATERBURY RUBBER CO., Sole Mf'rs and Owners of all the *Sphincter Grip Armored Hose Patents*, 49 Warren Street, New York.
J. C. VAUGHAN, Agent, CHICAGO.

MOSS.
CHEAP FOR WINTER. . . .
Fine Moss for Funeral Work and Orchids. 60c. and 75c. per pound.
A. K. Savacool,
EAST STROUDSBURG, PA.

GLASS. ROCK BOTTOM PRICES. Send for Estimate. Satisfaction Guaranteed.
REED GLASS CO.,
65 Warren St., and 46, 48 & 50 College Place, New York City.

Please mention the AMERICAN FLORIST every time you write to an advertiser.

FLORISTS' HOSE,
Made by E. W. Holt, member of the Society of American Florists.
Goodyear Rubber Store,
2 W. 14TH ST. NEW YORK.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

Index to Advertisers.

Abel C C & Co.....179 181
Adv. Rates, etc 176
American Boiler Co ...188
American Road Mach Co.....185
Andorra Nurseries.....181
Baller F A 181
Barnard W W & Co....179
Bay State Hdw Co.....185
Bayersdorfer H & Co ..184
Berger H H & Co.....179
Boehmer L & Co 181
Bonsall Jos E & Son ...177
Boston Letter Co 184
Brauer & Richter.... 180
Brown & Canfield.. ...176
Buist R Jr.....175
Burki Fred.. 182
Burns & Raynor.....177
Burrow J G.....181
Burton John..... 178
Butz Paul & Son.....183
Calvert F & Son.....180
Carman R W.... 183
Carmody J D..... 185
Chandlee Geo H 187
Chicago Cut Flower Ex176
Corbrey T J.....176 177
Crabb & Hunter.....182
Creighton Geo 180
Deamud J B & Co.....177
De Cock Jules.....181
Degner Wm..... 180
De Lamater Iron Wks.185
Denver City Nurseries.183
Dillon J L.....182
Dreer H A 179
Elliott W H.....176
Ellison Wm.... 176
Ely Z De Forest & Co..178
Engle W J 180
Evenden Bros 175
Felheim Lyman.....185
Forstermann L 181
Gardening Co The 183
Gibson J C.....181
Gonzalez & Co..... .179
Goodyear Rubber Store 187
Grenville Bros.....175
Griffith N S..... 182
Guillaume Louis A....180
Gurney Heater Co 185
Hail Ass'n.....188
Hancock Geo 182
Hart James.....177
Hart Michael A.....177
Hart & Crouse.....187
Hartford H E.....176
Heinl Geo A.. 182
Heinl Jos.....182
Herr Albert M.....180
Hews A H & Co 186
Hilfinger Bros.....186
Hill E G & Co... 181
Hippard E 185
Hitchings & Co.....188
Hooker H M Co 187
Horan Edw C. 177
Hulsebosch Bros 179
Hunt E H..... 177
Hunt M A..... 178 183
Hunter Frank D.....177
Huntington Seed Co...184
Jennings E B.....180
Joosten C H.....179
Kemble Floral Co . ..182
Kennicott Bros.....177
Krick W C.....184
Kroeschell Bros 186
Kuehn C A..... 176
La Roche & Stahl.....176
Lockland Lumber Co...186
Long Dan'l B.....177
Lonsdale Edwin.....179
Lord & Burnham Co...187
Lovett J T Co 175
McCarthy N F & Co....177
McFarland J H.....185
McFarland J H Co.....179
Madsen H.....176
Manz J & Co.....184
Marion Greenhouses...182
Marschuetz & Co.....184
May L L & Co.....175
Meyer John C & Co ...187
Michel Plant & Bulb Co 179
Millang Bros.....177
Miller Geo W.....178
Moffatt G J.... 179
Moninger Jno C 188
Nanz & Neuner..... .178
Niles Centre Floral Co.177
Ouwerkerk P.....183
Parmenter Mfg Co.....186
Peck & Sutherland.....177
Pennock C J.....182
Pennock F M. 182
Pennock Sam'l S.....176
Pierson A N.....178
Pierson F R Co.....176 179
Pittsburg Clay Mfg Co.186
Prince A G & Co 177
Probst Bros Floral Co..182
Pye & Mueller.....180
Quaker City Mach Co..185
Randall A L 177
Reasoner Bros.....178
Reck John 181
Reed Glass Co.....187
Reed & Keller.... 184
Reimschneider Ernst..179
Roberts J H.....187
Roehrs Theo.....177
Rolker A & Sons....179 184
Rupp John F.....180
Russell S J.....184
Sander & Co 181
Savacool A K.....187
Schiller Ludwig 183
Schofield D C & Co.....186
Scollay John A. 187
Scott Alex.....183
Scull James H.....184
Sebire P & Sons 181
Shelmire W R.....182
Sheridan W F.....177
Sherwood Hall Nur Co.180
Siebrecht & Wadley....181
Siptle, Doppfel & Co...186
Situations wants.....175
Smith H Floral Co.....182
Smith Nathan & Son....182
Soltau Chr.....180
Spooner Wm H. 178
Starr Chas T.....182
Stewart W J Sec'y.....181
Stott Garden Imp Co...183
Struck J N & Bro.....185
Sunderbruch H L... ...177
Swanson August S.....183
Swayne Edward.....175
Tracbt J A & Son 182
Tricker Wm..... 183
Van Horne Griffeu & Co 187
Vaughan J C..... 178
Vick & Hill.....182
Waterbury Rubber Co 187
Watson G C.....179
Weathered's Sons T W.185
Welch Bros.....177
Whildin Pot Co ...186
Whitehead Geo B... ..182
Wight W P..... . ..183
Williamson J T.....176
Wisconsin Flower Ex..179
Wittbold Geo ge.....183
Witterstaetter R.....181
Wolf E E 185
Wood Bros.....178
Young John.....177
Zirnglebel D.....180

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

CYPRESS GREEN HOUSE MATERIAL

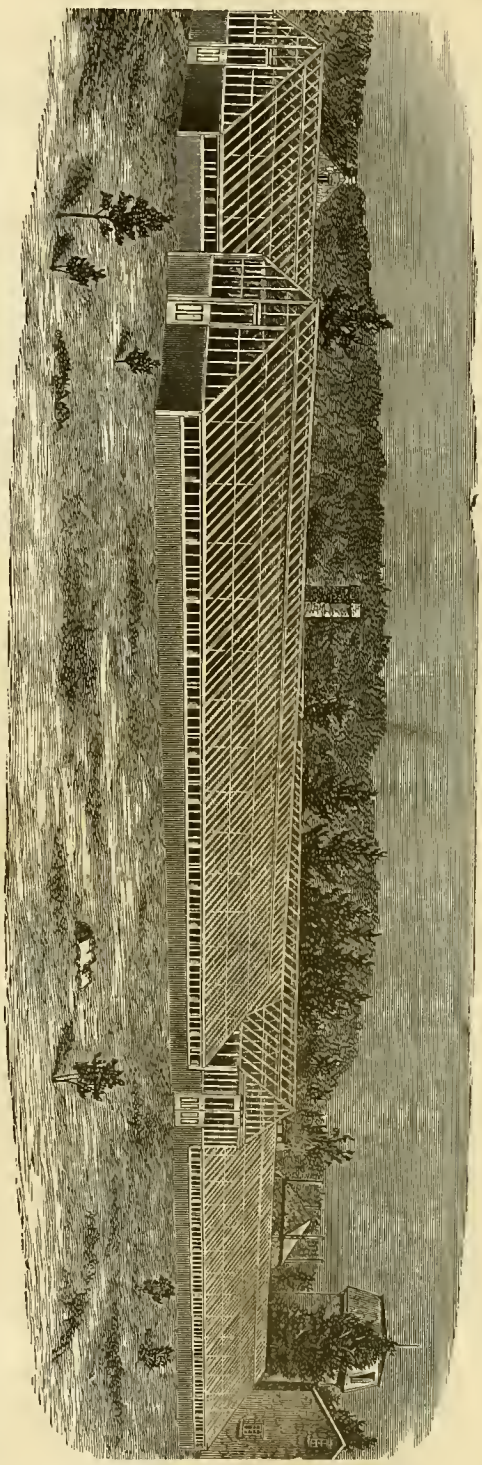
CLEAR CYPRESS SASH BARS

HOT BED AND VENTILATING SASH

JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

HITCHINGS & CO.
ESTABLISHED 1844.

GREENHOUSE HEATING AND VENTILATING,
HORTICULTURAL ARCHITECTURE AND BUILDING.



COMMERCIAL ROSE AND GREENHOUSES, CONSERVATORIES, PALM HOUSES, ETC., CONSTRUCTED WITH POSTS, RAFTERS, PURLINS, GUTTERS, SILLS, COLUMNS AND BRACKETS, ALL OF IRON; AND GLAZING BARS, VENTILATING SASH AND SIDING OF WOOD. ERECTED COMPLETE, OR THE STRUCTURAL IRON WORK SHIPPED READY FOR ERECTION WITH PLANS, DETAILS AND FULL INSTRUCTIONS TO ENABLE LOCAL MECHANICS TO COMPLETE THE SAME. —— IRON BENCH FRAMES FOR SLATE OR WOOD TOPS. (——

SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUES.

HITCHINGS & CO., 233 Mercer Street, NEW YORK.

STEAM · AND · HOT · WATER · HEATERS
FOR
GREENHOUSE HEATING
156
DIFFERENT SIZES.
American Boiler Company.

BOSTON, 195 Ft. Hill Square. NEW YORK, 94 Center St. CHICAGO, 34-36 Dearborn St. DENVER, Mining Exchange Bldg. SAN FRANCISCO. 80 Crocker Bldg.

Please mention the American Florist every time you write any of the advertisers on this page.

HAIL
LOCK THE DOOR BEFORE THE HORSE IS STOLEN.
DO IT NOW.
JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

Goodell Mass Agri Col 1593

THE AMERICAN FLORIST

A WEEKLY JOURNAL FOR THE TRADE

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. IX. **CHICAGO AND NEW YORK, OCTOBER 5, 1893.** **No. 279**

THE AMERICAN FLORIST

Copyright 1893, by American Florist Company. Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.
322 Dearborn Street, Chicago.

Subscription, $1.00 a year. To Europe, $2.00.

Address all communications to

AMERICAN FLORIST COMPANY,
P. O. Drawer 164, CHICAGO.
Eastern Office: 67 Bromfield St., Boston.

SOCIETY OF AMERICAN FLORISTS.

WM. R. SMITH, Washington, D. C., president; PROF. WM. TRELEASE, St. Louis, Mo., vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass, secretary; M. A. HUNT, Terre Haute, Ind., treasurer.

The new officers, to be installed Jan. 1, 1894, are: J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; secretary and treasurer the same as for 1893. The next annual meeting will be held at Atlantic City, N. J., August, 1894.

CONTENTS.

Chrysanthemums—Cultural notes 189
Miscellaneous seasonable hints 189
Cannas 190
Canna Mme. Crozy (illus) 190
Canna Florence Vaughan (illus) 191
Palm growing for profit 191
New York 192
Canna J. D. Cabos (illus) 192
Canna Columbia (illus) 193
Philadelphia 193
Chicago 194
Boston 194
Buffalo 194
St. Louis 194
Canna flowers (illus) 195
Indianapolis 195
Toronto 196
Chrysanthemum shows 198
Catalogues received 198
Philadelphia 200
News notes 200
Had felt the influence 202
Miscellaneous notes 204
Fire insurance 206

OBITUARY.

MR. HUGH LOW, of the famous Clapton Nursery, England, died suddenly from pneumonia September 17, aged 33 years. He was the oldest son of Mr. Stuart Low, and leaves a widow and two little daughters. He was a member of the committee of the Royal Gardeners' Orphan Fund, but otherwise took no active part in public horticultural affairs. Mr. Low's untimely death is deeply regretted by a wide circle of friends, in addition to the many to whom his name is familiar through business interests.

A PROJECT is on foot to have a mammoth chrysanthemum show at the World's Fair, beginning November 7. Mr. Rob't Craig and President W. R. Smith are working the matter up. They have asked the management to appropriate $10,000 for premiums, and as we go to press the chances of their acceding to this request seem favorable.



Cultural Notes.

By this date most of the varieties will be ready to disbud, in fact all but a few of the latest will need your immediate attention. Many of those previously disbudded have pushed out lateral growth all along the stem, these should be removed at once if you wish to concentrate all the energy into the bloom.

Where cut flowers are the object, and the appearance of the plant is of no consideration, it is well to remove some of the lower leaves, particularly so if the growth is very gross. You will notice many of the leaves are very much thickened and they will become more so, thereby robbing the flower to some extent of the nourishment you are so liberally applying these days.

One fourth to one half of the lower leaves (according to the height) can be dispensed with, which will not only improve the quality but make it easier to note the condition of the soil, and also, by thus admitting the light and air, evaporation is hastened, which is quite essential as the days shorten.

Some of the early varieties are beginning to show color and in ten days there will be many half expanded blooms. Two or three liberal smokings should be given before color is too prevalent, to destroy all aphis, as tobacco smoke or dust can not be used in sufficient quantity to kill the pests without injuring the flowers when expanded. But light smokings can be continued as a preventive rather than a cure.

Mildew may be kept in check by dusting the plants with sulphur on bright days, and then close all ventilation for a few hours to secure sufficient heat to generate the fumes.

A diary giving date when the buds were taken, and when fully perfected, with their size, and the height of plant, will not only be interesting but instructive, eventually giving very valuable data.

As fast as the disbudding is completed give them the final tying and at the same time see that all buds are kept from the glass, for a few nights freezing will make them worthless.

The knack of knowing when and how often to apply liquid foods is somewhat perplexing even to those who have had experience, and can only be acquired by close observation, as this work must be governed by the apparent condition of the plants. If all growers were chemists or were capable of analyzing their compost it might be possible after years of careful experimenting to arrive at a definite conclusion which would be practical to all, but as very few of us know the constituents of our soil a precise rule can not be given.

The indications of excessive nourishment are considerably varied in different varieties. When overdone prior to the time for bud formation O. P. Bassett, Ada Spaulding and its seedling Esmeralda, become thickened or stopped, or in other words the joints do not elongate but form a compact mass of foliage at the top of the stem and literally refuse to produce buds at all. When these varieties are desired for exhibition I would advise early propagation and give no other food than that contained in a good compost until after the buds appear, and carefully encouraged thereafter.

Most of the varieties are not as sensitive as the foregoing, although H. E. Widener, Minnie Wanamaker and many others, curl or cup their leaves, while Henry Cannell, Secretary Farson and others show yellow or brown edged foliage, as though maturing with age, when too generously supplied.

When any of these forms are apparent, no matter how slight, let it be a warning, as it is safe to say they have had a sufficiency, but will not necessarily be injurious to any marked degree if discontinued at once. ELMER D. SMITH.

Adrian, Mich.

Miscellaneous Seasonable Hints.

You will by this time have your Azalea Indica all housed; I mean those left over from last spring's sales. If you don't want any to flower in midwinter then the very coolest place above freezing is the place for them. It is well to have none left over, but you are sure to have some and you can make good use of them for decorating during winter. If you have such use for them bring them into a temperature of 60° or 65° at night about November 1 and they will be (if they are early flowering varieties) in flower by the Holidays, and they come in remarkably useful for decorations. When subjected to forcing in a high temperature the azaleas are liable to be attacked with thrip and must be daily syringed thoroughly, not overhead like a greenhorn handles the hose, but underneath with an "upper tendency," because the thrip are always on the under side of the leaf. In a few days the imported azaleas will arrive. I have seen the exporter blamed for the non-success of these plants when the fault was entirely with the importer. They arrive invariably in good order with exception that a few leaves drop off

when unpacked. They are in most cases three weeks from the time they are lifted from the nursery beds in Europe until they are unpacked by the florist here, and in inland cities more, and must be quite dry at the roots. When you are ready to pot them the most important part of the job is to have a tub by your side with seven or eight inches of water in it; give each plant a soaking at the root for two or three minutes. This will thoroughly saturate the ball, which is of the greatest consequence. Use for potting a good light loam with one third of leaf mould. You can not pot these azaleas as fast as you can many soft wooded plants; it pays to take time. The great majority of the azaleas now imported are grown in the open ground and when lifted have a large mass of roots that it would be impossible to get into a pot unless it was of a size altogether out of proportion to the size of the plant. So take a well sharpened hatchet and slice off the roots to a size that will suit the size of pot. It does not do them the slightest harm. A space of half an inch all round between the trimmed up ball and the pot is sufficient, and then get the new soil well packed down. You can not do this with the pressure of fingers and thumb as you would a geranium or cineraria, you must have a stick an inch or so broad and a quarter of an inch thick and put in a little soil at a time, thoroughly ramming it down. If this were not done the future waterings would soak through the new soil and almost entirely escape the old solid ball of roots. The best place to put the azaleas when first imported is in a shaded house with a night temperature of 40° to 45° and give them a light syringing daily. Some growers who import these plants by the thousand recommend keeping them for one year before selling them, but for the great majority of florists who import from 50 to 500 of these beautiful little trees it is far more profitable to dispose of them the first year. A good, shapely little plant is landed at your door for about 60 or 65 cents. The following February, March and April they are all sold at from $2 to $3. This is doing well enough. You need not reserve them all for Easter, for there is no plant that sells better in midwinter than a compact little azalea. Deutsche Perle, the beautiful little double white, if put in a rose house temperature about December 1, will be in full bloom at Christmas, and if it only lives or flowers a week, has it not been more for the money than a dozen picked over roses?

Now is the time to sow Centaurea candidissima if you want it. It seems going out of fashion, yet very effective in some places.

Give the poinsettias the warmest and lightest place you have. In so many places you see them grown by the yard because they are put in a palm house where it is warm, but shady.

As soon as the tops of cannas and Caladium esculentum are injured by frost the sooner the better the roots are dry. If you can let them bask in the sun for a day or two after being dry, so much the better. A cellar that will keep potatoes will keep cannas to perfection, but caladium roots need it warmer. The floor of a rose house is just the place. But don't put them on the ground, or the moisture will start them growing; place them on boards to keep them off the ground.

Buffalo, Oct. 2. WM. SCOTT.

YOU CAN'T AFFORD to do business without a copy of our trade directory and reference book.



CANNA MME. CROZY.

Cannas.

The continued improvement in ornamental flowering cannas leads to the establishment of a certain standard of perfection, and it is necessary that raisers of new varieties keep this standard in view. In spite of the many new sorts introduced Mme. Crozy still stands at the head, and is pointed out as a model by those who have made these plants a study. On referring to the illustration of Mme. Crozy, on this page, it will be noted, first of all, that the petals are broad; they average one to one and one fourth inches across, and they occasionally reach a width of one and one half inches. The coloring is not only brilliant and distinct, but it stands exposure without bleaching or fading. The texture is firm. Instead of forming one spike only the flower stalk branches, and after the main spike has done blooming it may be cut out, leaving one or more laterals to take its place. This insures abundance of bloom. The plant is a constant bloomer, keeping up a succession of flowers all through the season. It will be seen that in general excellence this variety is not excelled by later ones; it is still indispensable and should be a valuable seed parent.

The spike of Florence Vaughan, figured on page 191, is longer than Mme. Crozy, without its rounded appearance, but it has the same tendency to branch off into lateral spikes. In the picture the side spike will be noted, undeveloped yet, but ready to bloom after the older spike. The flowers are wide-petalled and firm, inclined to lap over one another a little, and the coloring is very rich. A free bloomer, with fine habit and robust constitution.

J. D. Cabos, which is shown on page 192, is a good variety, but not so good, according to our standard, as the two first named. The petals are of good width; they open very wide, curving backward to their full extent. This gives a showy flower, but is not a shape calculated to stand being battered about by high winds. The texture is thin, and the color, orange shaded with apricot, is inclined to fade under a strong sun. Still, we are inclined to call Cabos the best of its color; it is an abundant bloomer, and makes a fine show when bedded in a mass.

Columbia, figured on page 193, is a new American seedling, which has received high praise; the picture does not really do it justice, the flowers being crowded so thickly on the stalk that they do not show to advantage. This close massing of the flowers is considered by some good authorities a great advantage, since it gives the flowers more security against battering by rough wind or rain, but carried to excess it must cause the spike to lose some of its elegance. In Columbia the petals are very large, both long and wide, and slightly overlapping at the sides. The texture is very thick and firm, the color a rich red. This is a very pro-



CANNA FLORENCE VAUGHAN.

lific bloomer and vigorous grower, and is generally conceded to be a decided advance.

In the individual flowers shown on page 195 the various peculiarities before mentioned can be noted more particularly. J. D. Cabos and Columbia show as the very antipodes of each other. In Cabos the petals roll back, making a very open, spreading flower; in Columbia they scarcely reflex at all, and the straight up and down style of the flower takes off the breadth of the petals. But this shape gives great firmness to the flower, and it is very lasting. In Florence Vaughan we have the wide petals, reflexed, but not as much as Cabos, a shapely flower, distinct in character as in color. In the unnamed flower to the left of Columbia we have a prevalent type which should be avoided, rather long, narrow reflexed petals, easily twisted or broken. It is not the poorest type of flower, but it is a style that can not hope to compete with better ones. For the flower width of petal is essential, and excellence of color alone can not make a useful plant. These points should be borne in mind by those who are striving for improvement in these plants.

Palm Growing for Profit.

The areca has become such an indispensable palm that no florist's stock is complete without a number of them, and there are establishments where house after house is filled entirely with this fine variety. Popular as it is, however, it has to divide honors with the latania, which variety pushes it very hard for first place in public favor, while the kentia is fast becoming a rival of both of them.

At Mr. Chas. D. Ball's establishment, Holmesburg Junction, Philadelphia, these palms may be seen in perfection. There are all sizes and degrees of growth, from seedlings to specimens, and all in perfect health. As a rule each variety has a house to itself, the larger plants occupying the center, while the younger stock fill up the side benches. The areca is Mr. Ball's best palm, and his stock of this variety is very complete. In speaking of arecas during a recent visit to his place he said:

"I grow a great many single plants, but the majority are now started right from the seed pan three together in a pot, care being taken to put different growths together, so that when they grow up they will make a more symmetrical plant. Those started in this way after they have grown up can not be distinguished from the single plant that has sent up side shoots. Pots made up from plants a year old never look as well. While I prefer a naturally grown plant I have been compelled to adopt this grouping of plants together, as they make what appears to be a fine bushy single plant much quicker than by the old method. Frequently, too, a single plant will grow very tall without sending up side shoots, making a poor specimen; I have known such to branch out after checking their growth, but as a rule they have to be sold at a reduced rate. Of course this does not matter in the made up plants, as if one does grow tall the others are likely to be bushy, and the result is a fine clump."

"Did you ever try two or more latanias together in one pot?"

"No, I never could see anything in putting latanias together, a well grown specimen is quite bushy enough. What better could anyone want than that?" said he, putting a fine specimen in an 8-inch pot on the floor. "There are twelve leaves on that plant, and if another had been growing with it I am sure it would never have made the saleable plant which this is. I have grouped together Caryota urens, as well as Seaforthia elegans, with excellent results, which I will show you in another house, but I will continue to grow latanias one plant to a pot."

The latanias in this house were very fine, being in 8-inch pots, with from eight to twelve leaves. "How long does it take to grow such plants as these?"

"They were in 4-inch pots this time last year."

"One would hardly think you could get them up in that time."

"Well, I don't know how it is, but this palm always seems to grow very rapidly with me, yet I don't force it, giving whenever possible plenty of air, as I do to all my palms. I believe plants are like people, they require lots of fresh air, and I find it pays to ventilate; even if by keeping the houses close I could get a more rapid growth I would not get as stocky plants."

"What kind of pots do you use?"

"Regular standard up to 6-inch, and hand-made above that. The hand-made is a neater looking pot and fits into the fancy china jardinieres and vases much better than does the standard, and I think they are stronger. The machine-made pot is very thin at the rim and frequently a piece breaks out, then the pot will not hold water and the plant suffers.

"This is the time of the year when palms make their growth, or I should say from the latter part of August to first of November; the pots are full of roots and they send out leaves quite rapidly."

"How about heat in summer?"

"I fire very little, only when the weather changes suddenly, and then I always keep some air on."

A house full of latanias in 4-inch pots were as Mr. Ball put it "anxiously waiting to be potted on." Although Mr. Ball enlarged his glass by adding some 8,400 feet the past summer, he is much cramped for room. His stock is moving lively, and sales are fully up to his expectations, but the young plants keep coming on and are soon put in the vacant places.

"This bench is full of the caryotas and seaforthias I spoke about a while ago." They are very nice plants and the first of the kind we had ever seen planted in this way.

Thousands of ferns were seen in a range of smaller houses. Mr. Ball grows quite a stock of ferns, and among others has a nice house of that aristocratic fern Adiantum Farleyense.

"This variety is sold now at least fifty per cent less than it brought a few years ago; it is no trouble to grow now, the only trouble being in keeping enough plants over for stock. I find that for stock plants it is best to have the soil very light; this makes the plants grow bushy and there is more to divide, but in plants for sale it is best to put them in good rich loam without peat, and the foliage then takes on a rich, luxurious appearance, and the fronds grow much longer, and a salable plant is the result, in a comparatively short time. I found a fertile frond the other day, which is quite unusual with this variety."

"How do you keep fern seed?"

"In wide mouthed bottles; after it has been gathered for about a month we shake it from the fronds and put the clean seed in the bottles, cork it up tight and it will keep perfectly good for quite a long time."

"Your houses are built and heated somewhat differently from others about here, are they not?"

"Well, I don't know about that; I use brick walls exclusively in building my houses, as I believe it pays in the end, and I use cement instead of mortar. I have one house that has been up sixteen years and has never had any repairs made to it as yet, except the posts supporting the ridge pole rotted off at the bottom, and had to be pieced out. I heat with hot water under pressure and believe it to be the best and most economical. I use Hitchings boilers, with two large expansion tanks raised about thirty-two feet above in the top of the shed, and this gives ten pounds pressure. Two four-inch pipes carry the flow and return to the houses, then they are reduced to three-inch, and along under the tables I use two-inch pipes connected with ordinary manifolds. There is a rise of one foot in a house, starting from the lowest point to the highest and the return is taken back directly underneath the flow. I have never had any difficulty with this system. There are small pet cocks at the highest point in each pipe, but they are very rarely opened, as the air gives us little or no trouble. I like it much better than any steam system I have ever seen and believe it will be generally adopted when its merits are better known."

K.

New York.

"How do you find business?"

"Not steady yet. Picking up a little." M. Hart.

"Well, it's no use to find fault; they say I'm always kicking. Plenty of shipping orders, but look at that stuff; sure you can't send that to anybody." Jas. Hart.

"Hasn't started up here yet. When we get some cooler weather it will improve. There is no good stuff yet." F. D. Hunter.

"All right today. Dull, as a rule, though. Stock shortening up some; that's what helps us." W. F. Sheridan (with broad smile).

"Not started up much yet. Got our first double violets yesterday; good ones, and grown by a carpenter too." W. H. Gunther.

"All cleaned out." Frank Millang (pencil behind ear).

"I feel sick. Prices too high for me." J. Weir (sitting on safe and swinging his legs).



CANNA J. D. CABOS.

"Good one day; rotten the next." John Raynor (in shirt sleeves).

"I've got no fault to find." John Young.

"From what standpoint would you like me to answer?" T. Young, Jr.

"Fully up to the mark for orders, but no cash." A. Herrmann (making movement with fingers to represent handling cash).

Carnations are becoming more plenty. Tuberose spikes are abundant and bring less than two cents a spike. Asters are about finished. Chrysanthemums will appear in a few days. Forsterman, Dailledouze and others will begin to cut a few early ones this week. Forsterman's early specialty is October Beauty. Over at Dailledouze Bros'. place at Flatbush is a house of Early Snowball with flowers already half opened. Kate Brown, largely advertised as the earliest white variety, is far behind Snowball here. Mrs. J. G. Whilldin is regarded by Mr. Dailledouze as the best early yellow. Viviand-Morel, Minnie Wanamaker, Ed. Hatch, Mrs. Jerome Jones, Dr. H. Mandeville, Ada Spaulding, Mermaid, Maria Simpson and The Queen are all looking splendidly. One bench contains 125 new varieties. The most robust and sturdiest looking variety in the whole lot is Pres. W. R. Smith, which is certainly very appropriate. Golden Wedding is sick and in this case at least is good for nothing. Ernst Asmus reports the same experience with this variety. O. P. Bassett is another unsatisfactory kind. It goes blind. Ed. Hatch does not take after its namesake, for it is very tall, in fact is quite a climber. For late yellow, Mr. Dailledouze grows Dr. Covot. He has discarded all roses except American Beauty, of which he has four houses in fine condition. In carnations, Daybreak, Edna Craig and Puritan are favorites. Mme. Albertini is in bloom, a good sized flower, but in color and form no match for Edna Craig.

Another Flatbush celebrity is G. Bergmann, who is located on Lincoln Road (not Pigtown). Mr. Bergmann has recently returned from Europe. On a recent call he was found to be working hard. Cyclamens are his great specialty, and they are in grand shape. Plants one year old are from twelve to fifteen inches across, in six inch pots and are full of buds. There will be some fine chrysanthemums here; Widener and Ivory are particularly promising. Mr. Bergmann is troubled a good deal with ants, which eat the bark off the chrysanthemums just at the surface of the soil and kill the plants. Other growers in the vicinity have been annoyed in the same way. Mr. Dailledouze places a bone among the plants. The ants gather on it and are then easily destroyed. Dracæna terminalis has always been grown in quantity by Mr. Bergmann, but his plants have become so infected with a spot, apparently fungus, on the foliage, that he will be obliged to abandon their growth entirely. Carnations Grace Wilder, Lady Emma, Puritan, McGowan and Daybreak are all fine here.

Over at Chas. Zeller & Sons' the great



CANNA COLUMBIA.

specialty is orange trees. These little plants, in six and eight inch pots and bearing from twelve to eighteen little Mandarin oranges each, are exceedingly decorative and there is a tremendous demand for them. They are struck from cuttings and take three years before they are in full fruit and ready for market. Zeller's primroses are said to be the best in the country. He has a novelty in the shape of a variegated foliaged variety which came from seed two years ago. The variegation is very distinct and it makes a showy plant. The flower is white.

Gus Messeberg's chrysanthemums are in fine condition. Golden Wedding seems to do better here than with Dailledouze, Widener also. Harry May is not growing as strong as last year. Ada Leroy, Niveus, Mermaid, Jessica and Frank Thompson all look first class. A rare sight nowadays is a fine bench of Bennett roses. Grown as Mr. Messeberg does it, it stands in first rank yet. He has in former years been a large grower of tulips, but like many others has about abandoned them as no longer profitable. Mr. Messeberg says that the recent cyclone played a funny trick on him. It blew the bottom out of a dump cart, and he has never seen a trace of the bottom since.

Mr. P. Bruno Meissner, who has been dangerously ill, is greatly improved. At one time his chances looked pretty slim.

Julius Roehrs, Theodore Roehrs and J. M. Keller have gone to Chicago in company with Mr. Seyderhelm of Hamburg, Germany.

John Young has got pretty well settled now in his old quarters at 53 West 30th street, and business has made a good start with him.

The schedule for the chrysanthemum show at the Industrial Building is now ready and copies may be obtained by addressing John Young, secretary, 53 West 30th street, New York. Quite a number of entries have already been booked.

W. S. Rogers, a former employe of Pitcher & Manda who forged checks in their name, has been arrested at Bridgeport, Conn.

Philadelphia.

The nights have been quite cool the past week, and there have been light frosts in low places, but not enough to do damage to the bedding. Some growers say that a good hard frost is just what is needed at this time to start things off with a vim.

Business is improving and while there is nothing special to make note of the increase in trade is quite observable. Prices remain about the same, accounted for by the fact that more growers are coming into the market every day or two and next week will no doubt bring in the balance. There are some thirty to forty growers and probably more, and their number is steadily increasing, who bring or send their own men in with their stock every morning. This is peddled from store to store until it is all sold or the trade is supplied, and the balance, well, the least said about the balance the better.

Now we contend, always have contended, and will continue to contend, that this is no way to manage a business of such magnitude as ours has grown to be. When there were but a few growers outside of those who had stores themselves, it was an easy matter to dispose of their stock, but as they increased the hustling began and now it is quite a common thing to see six and eight of these peddlers in a store at one time, each with a big basket or two or a lot of boxes, while out front will be seen a row of wagons. We believe that at least half if not more of the growers reach the city by rail, and as the two depots are right in the center of the city and only a few blocks apart, would it not be better if they would get together and agree upon a location, somewhere near these stations, bring their stock to this center and make the dealers come to them? The little gimcrack arguments that are offered against this scheme, are mere nothings, while the benefits that would accrue to both grower and dealer alike are inestimable. In New York, Baltimore, Boston and Chicago, where markets have been established the results are very satisfactory, and those who have held back and were afraid that a movement of this kind would be only an experiment need have this fear no longer. Very few flowers are controlled by commission men in this city, but if they would join in the movement it would be greatly to their interests to do so. Any information regarding the benefits to be derived, or the advantages such a method would have over the present system, can be obtained by any one interested, if he will put on his thinking cap and go off by himself and meditate. When the light begins to dawn, let him go and speak to his neighbor, we believe all the growers hereabouts are on speaking terms, in fact most of them have a shaking acquaintance with one another and have been known to work together with a will in matters of trifling importance when compared with this question. Then if two or more think well of the movement, let them call a meeting of their brethren and in a few days the whole matter will be arranged and they wonder why they didn't do it long ago.

The best teas are bringing $5 per hundred, the seconds and smaller ones $2 to $3. Beauties and Belles from $1 to $2 per dozen and at times the market is well supplied; quite a few growers have not commenced to cut these roses yet preferring that these crops should come in a little later. Carnations are still 1, valley 4, smilax 12 to 15.

"When will you have chrysanthemums?" is now an everyday question in the stores, and is a hard one to answer. Most of the growers say anywhere from the 7th to the 15th will be the earliest. On all sides comes the report. "We never had them finer," and some say they will excel all previous stock they have ever had.

The special decoration of Z. De Forest Ely & Co s. window is certainly deserving of mention, as the effect is very showy and attractive. The bottom of the window in the front is covered with buckwheat chaff, and all kinds of bulbs are arranged on baskets and trays one tier above another from the center, back. In the chaff beds of different shapes are laid out and filled with bulbs, each variety having an artificial plant of its kind in flower in the center. As a back ground to the whole, an oil painting of a large garden, beautifully laid out in beds filled

with spring blooming bulbs in full flower is to be seen. It is fashioned after the depressed bed in Fairmount Park and the horticultural building is to be seen in the distance. The whole effect is very fine and the window attracts a great deal of attention.

Their neighbor H. F. Michell, a few doors below, has also dressed his windows up in good style. Both firms report business very good and particularly so in bulbs, in which line they say their business has increased very much.

What a fellow that George Campestris Watson is, to make such a fuss about so small a thing as a foot or two. We all know that woods don't grow in meadows, but they often do grow just alongside, and as he says the deadly Amanita is found on the borders of the woods and the good mushrooms in the meadows which may be right alongside, why,—well we won't say anything more except that we will thrash him again some day soon and get some "more wheat to send to Chicago."

Daniel D. L. Farson is in bed with pneumonia, having been taken sick on the 23rd; he is getting along all right however, and hopes to be about before long. The chrysanthemum show is at hand, and he says he expects to be all right before that time. K.

Chicago.

There are some signs of reviving trade, though there is not much doing yet. Prices are stiffening, though they do not show any great advance. Outdoor stuff is nowhere, so that the stock practically consists of roses and carnations. The recent sharp frosts have cut down the remaining stuff outside, though the continued dry weather had previously ruined the bloom. Cosmos, usually so plentiful, is practically non-existent, and dahlias are too scarce to be quoted. Tuberoses are better than they were. Valley, though not of extra quality, brings $5. A good many roses are suffering from mildew, owing to the cold wet weather, and few growers have been using fire heat yet. Carnations are generally rather poor, as the plants have not yet become established inside. Chrysanthemums are not yet in. Orchids are more in demand for fine work; Corbrey, who makes a specialty of these flowers, reports large orders recently. These orchids come from out of town.

Society is beginning to amuse itself, and some good decorations are looked for. Jos. Curran has to decorate a reception given to Miss Susan B. Anthony next week, where the material is to consist entirely of orchids and Asparagus plumosus. Walter Kreitling had a large decoration on last Tuesday, and P. J. Hauswirth gets a good many receptions and banquets of the World's Fair officials. Autumn weddings are beginning, so prospects are brighter all round.

Oscar J. Friedman has severed his connection with the Gallagher Floral Co. and has started in business for himself at 4 Jackson street, under the Leland Hotel.

Recent visitors: Geo. W. Schroyer, Lancaster, Pa.; Robt. McLeod and wife, Newport, R. I.; Wm. R. Smith, Washington, D. C.; Robt. Craig, Philadelphia; V. V. Eggleston, W. R. Jackson, Orlando, Fla.; C. A. Kuehn, St. Louis; L. Reynolds, Sarnia, Ont.; T. C. Joy, Nashville, Tenn.; W. A. Hanft, St. Louis; Geo. F. Crabb, Grand Rapids, Mich.; E. H. Krelage, Haarlem, Holland; F. A. Baller, Bloomington, Ill.

At the last meeting of the Florist Club a committee was appointed to take steps to counteract certain political influences that seemed to endanger the proper administration of certain of our public parks. The appointment of such a committee was warmly approved by the club and war has been declared upon a certain low grade politician who has been most active in exerting the injurious influence noted. This seems to be a direction in which the club has not been sufficiently active in the past.

Outside of the above nothing but routine business was transacted at the meeting. Visitors at the meeting included Mr. U. J. Virgin, New Orleans, and Mr. J. A. Kramer, Marion, Iowa.

President W. R. Smith and Robert Craig are both in the city.

Boston.

One of the private establishments in the neighborhood of Boston, of which but little is heard, but which is fully as worthy of fame as some that are much better known, is that of Geo. A. Nickerson, of Dedham. The gardener is David Monteith, whose retiring disposition is mainly responsible for the fact that the place is not more prominently known, but who when once he gets you out there proves to be as truly hospitable as he is eminently skillful as a gardener. Here it is that the finest crotons in this vicinity, and probably in the country, are to be seen. They are magnificent big specimens, and unapproachable in color. In grapes, too, Mr. Monteith excels. One house just now is a sight worth seeing, twelve varieties being at present in full perfection.

Dedham is one of the oldest settled towns here and is full of fine old estates beautifully wooded, and the streets are overshaded by grand old elms, maples and lindens. There are white pine groves evidently of the old original growth which give to all the surroundings a character which can never be artificially produced in open or newly planted sections. Mr. Nickerson's estate is particularly attractive in this respect. There are extensive plantings of rhododendrons and other shrubbery, which add to the natural beauty of the place, and the flower garden is very brilliant with hardy herbaceous and annual flowers.

Cut flower trade remains as at last report, and but little activity can be noted as yet, although the retail florists are preparing for the fall campaign by making their windows as attractive as possible. The growers meanwhile are watching hopefully for the killing frost which will put an end to outdoor bloom and put prices "where they belong."

The plant auctions continue with varying success, good stock in palms, carnations and violets bringing good figures and small miscellaneous stuff going for a song.

W. E. Morton, of Portland, Me., H. F. A. Lange, of Worcester, and Wm. Appleton, Jr., of Providence, R. I., were all visitors to the Hub on one day last week.

Buffalo.

There is no great abundance of flowers of any kind at the present time. Roses are the most plentiful. There is a great scarcity of white carnations, but that will soon be over, for there were never so many planted in this vicinity before, and mostly all intended for the Buffalo market. There has been no remarkable revival of business, yet it is steadily growing larger and the annual crop of October weddings is coming in with good promise.

Mr. Stewart, late with W. J. Palmer & Son, will shortly open a store in the busy part of Main street. We shall soon have retail stores enough, but there is always room on top.

Last week a good few of the craft were occupied in avoiding and dodging the company of Mr. George Fancourt of Wilksbarre. He was returning from the World's Fair and got off the train here for a few hours (one hundred and twenty altogether). In company with half a dozen of the Buffalo men he visited Corfu, where he interviewed all the carnation growers, W. S. among the number, missed apples in the air with a shot gun and participated in several other sports known to both town and country. Another day was spent in the city and by that time the beauties of Buffalo had so overpowered him that he was determined that Mrs. Fancourt should also enjoy them. A telegram brought the good lady to the shores of Lake Erie and after a day at the Falls, and another spent socially at the houses of the local florists, they betook themselves to the coal regions, both expressing themselves as delighted with Buffalo. A visit from Mr. Fan. is very refreshing but they are too much like the famous story of the Carolina governors, they are "a long while between."

Mr. Ingram, of Messrs. Hugh Low & Co., paid us a pleasant visit. He was in the best of spirits and did not then know of the death of Mr. Hugh Low, of which I have just heard. This Mr. Low was named after his grandfather, the founder of this great firm.

The writer has not had the pleasure of an interview with W. J. Palmer, Sr. since his return from his European trip, but he is at home this three weeks and feeling well and says he had a "great time." He is reported to have gained seventy pounds in weight.

Very few of our florists have yet visited the World's Fair, but they are waking up. Mr. J. H. Rebstock and Miss Rebstock start to-day, and next week Mr. W. Belsey and wife and W. Scott undergo the ordeal, and several others are expected to join the pilgrimage. W. S.

St. Louis.

As was expected several cool days following the rain storm of last week shut off the supply of flowers of all descriptions, and for several days there was not enough to go around; this strengthened the market and roses took a slight advance; at present, however, the thermometer is up around 80° again, and if it continues for any time all will be back at summer prices. The prospects for the coming week are fair; the annual ball of the Veiled Prophet has created the usual demand and several heavy orders have been placed in consequence.

Meteors, which have been coming in quite freely, have suddenly slackened off and are hard to get, and it looks as though a scarcity of this variety during the season can be looked for. Some fair flowers of Kaiserin and Testout are in the market; it is rather early in the season, but from present indications Kaiserin will take well, while Testout will have to rank with La France and Albany, which do not take any too well here.

Mr. C. A. Kuehn, one of our wholesale florists who is better known probably as a manufacturer of wire designs, was married on the 23rd and left immediately for Chicago with his bride, where the couple made a short visit. The affair was kept very quiet and came as a surprise to his



J. D. CABOS. FLORENCE VAUGHAN.



UNDESIRABLE TYPE—PETALS TOO NARROW COLUMBIA.

CANNA FLOWERS. THREE-FOURTHS LIFE SIZE.

many friends in the trade; all, however, wish him joy. Mr. and Mrs. Benton, who have been away, have returned and on the 26th tendered a reception to their friends. R. F. T.

Indianapolis.

At the monthly meeting of the Indianapolis Florists' Club the question of fire insurance was discussed. It was found that very few members insure their places against fire, partly on account of the high rate charged, which runs from $2.25 to $3.50 in this city and vicinity, and partly because many companies refuse to accept risks on greenhouses. The S. A. F. committee ought certainly to accomplish much toward doing away with the unjust discrimination against greenhouses by the fire insurance companies.

A paper on "Impressions of the Horticultural Department of the World's Fair and the beauty of Chicago parks" was read by Robert McKeand. He handled the subject admirably and many members who have attended the Fair were in accord with his views. It is to be regretted that there were no displays of floral work at the Fair. The trial made by the Chicago Florist Club was in the right direction, but the premiums should have been given by the World's Fair management rather than the florists' clubs.

A committee was appointed to confer with the Board of Public Works in regard to space for plants and flowers in the new market annex soon to be built.

The secretary of the Society of Indiana Florists reported that everything was in good shape for the coming chrysanthemum show to be held in this city November 7 to 11. Local chrysanthemums are in excellent condition, the dry weather having had little effect on them.

The Indiana State Fair, held in this city recently, was a financial failure, but premiums will be paid in full. All third premiums were cut off the list this year. Of the principal premiums Anthony Wiegand won firsts on palms, ferns, foliage plants and display; Bertermann Bros., for funeral design, bouquets, cut flowers, original show design and gladiolus; John Rieman & Co., for baskets and original funeral design; Chas. Wheatcroft, for gerauiums and hanging baskets; W. W. Coles of Kokomo, for cut roses. The amateur class was well represented, and a few things shown in this section were excellent. The fruit display was very poor. The one judge system having been tried several seasons has proved a failure, at least in this department, and the management will probably return to the old plan of three judges.

Encampment week made very little difference to the trade. Altogether the season has been the dullest in the history of the trade here to the best of the writer's knowledge.

A shipment of bulbs from Holland, amounting to fully $800, was sent C. O. D. to a local seed house, which refused to accept them. The R. R. Co. and the shipper finally compromised and delivered the bulbs for 50% of the original bill. These bulbs will probably be unloaded on to the local market at very low rates.

The complete premium list and program for the seventh annual chrysanthemum show will be issued about Oct. 15.

W. B.

Toronto.

The weather has been considerably cooler here this last week and the tender sorts of coleus have been pinched where they stood in exposed situations.

The revised and final prize list of the Toronto Gardeners' and Florists' Association's fourth annual chrysanthemum show will be published this week and forwarded to members, secretaries of other clubs and many others interested. If anyone is left out or wishes for a list it will be forwarded on application to A. H. Ewing, 85 Carlton street, Toronto, Ont. As will be seen there is quite a little stock of silverware to be competed for this year and the competition is likely to be keen. It is reported that *some one* is coming over from Buffalo who is to knock everything grown in Toronto into a cocked hat. I am sure that the association would only be too glad to receive a dozen entries from across the line; they would be quite a drawing card, but I wish to recommend those entering not to build too much on the cocked hat business. But come along gentlemen, try your luck. You will be most welcome.

Mr. Thomas Manton, who has been looking after the Ontario floricultural exhibit at the World's Fair, is about to return home and Mr. Kilvington, a Hamilton florist, will take his place for a short time, when he will be relieved by our genial friend F. G. Foster of the same ambitious city. E.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By an experienced florist and gardener. Address E. HAY, care Mrs. Josephson, 200 N. Green St., Chicago.

SITUATION WANTED—By German, 28 years of age, as assistant; good greenhouse man; single. Address E N, P. O. Box 64, Bedford, N. Y.

SITUATION WANTED—To take charge of private place; thoroughly understands gardening and farming. Very best of references. Address T M, care American Florist, Chicago.

SITUATION WANTED—Indiana preferred; thoroughly competent in store or commercial place; single, temperate, reliable. References given. Address J H, Pequannock, N. J.

SITUATION WANTED—A French gardener, of great experience, employed at the Fair wishes a situation, gentleman's place preferred. Can give the best references. Address A Z, care Am. Florist.

SITUATION WANTED—By practical florist; 11 years' experience in growing roses, carnations and general greenhouse stock; perfectly sober and reliable. Can furnish good references. Address A P, Postoffice Box 33, Danbury, Conn.

SITUATION WANTED—By practical gardener as foreman or head gardener in commercial or private place; 20 years' experience; understands orchids. Good references. Address X PIERI, corner 70th st. and Seipp Ave., Parkside, Chicago.

SITUATION WANTED—As foreman or manager; understands growing roses, carnations, violets, decorative and bedding plants, forcing of bulbs; also making up, etc. A life experience; age 39; single. Good references. State wages. D N, care Am. Florist.

SITUATION WANTED—As florist or propagator in growing roses, carnations, palms, ferns, forcing bulbs and general cut flowers; age 32, single; 18 years' experience in America and Europe. Address CHARLES HANDEL, care Mr. Blythe, 463 West 42nd St., New York.

SITUATION WANTED—By a florist; 18 years' experience in general floral culture; also an experienced vegetable and fruit grower. Have been foreman of Danville Greenhouse Co.'s business past 4 years. Best references. State wages. O. C. PORTS, Gatewood, N. C.

SITUATION WANTED—By a young man, single, 26 years old; 3 years' experience in greenhouses; also several years as engineer and fireman; thoroughly understands the art of firing and the use and care of steam boilers, pumps, etc. Ohio or South preferred. Address REUBEN HARRIS, Berea, Ohio.

WANTED—A first-class maker-up and salesman at once; permanent place to right party. Address J J M, care American Florist, Chicago.

WANTED—Young man as assistant in greenhouse and outside. State experience and wages per month with board. Address GEO. S. BELDING, Middletown, N. Y.

WANTED—A rapid and reliable packer of greenhouse plants for the catalogue mail and express trade, about January 1st or sooner. Address with full particulars. WESTERN, care American Florist.

WANTED—A young, married man with push and energy and practical experience in greenhouse work. Have 10 houses; general catalogue and local trade. Only a trustworthy, obliging man need apply. State wages expected, with house, heat, etc. furnished. HARRY CHAAPEL, Williamsport, Pa.

FOR SALE OR LET—A valuable florist establishment near depot. Apply to JACOB MENDEL, Nyack, N. Y.

FOR SALE—1,200 feet 4-inch pipe and fittings (Weathered make), as good as new. MRS. GEO. WALDBAUER, Saginaw, Mich.

FOR SALE CHEAP—The very handsome oak finished and plate glass ice box, shown in our exhibit at the World's Fair. Visiting florists in need of a fine box will please examine this. VAUGHAN'S SEED STORE, Chicago.

FOR SALE OR RENT.

Rose and cut flower growing plant containing about 35,000 square feet of glass; houses heated by steam and hot water; all in good condition; well stocked with roses, ferns, palms, etc. Only 18 minutes ride from center of city. If you mean business, address FLORIST, care Chas. E. Prather, Louisville, Ky.

FIELD-GROWN

CARNATIONS

MRS. FISHER, MRS. CARNEGIE,

and a general line of other standard sorts and new varieties. Fine, healthy plants, $5.00 to $7.00 per hundred.

CASH WITH ORDER.

Fred. Bürkii,

Bellevue, Allegheny Co., Pa.

FIELD-GROWN

CARNATIONS

2000 Daybreak	per 100	$10.00
500 Mangold	"	5.00
1000 Wilder	"	5.00
500 Harrison	"	5.00
5000 Hinze's	"	5.00
1000 Garfield	"	5.00
500 Portia	"	5.00
500 McGowan	"	5.00

VIOLETS. 5,000 Marie Louise, per 100, $5.00. 10 per cent. discount for cash with order.

NATHAN SMITH & SON,

167 W. Maumee St., Adrian, Mich.

FIELD GROWN CARNATIONS.

Fine healthy plants for Winter Bloom.

W. R. SHELMIRE,

CHESTER CO., AVONDALE, PA.

Send for Circular.

CARNATIONS.

Healthy plants for winter blooming.

TUBEROSE BULBS, home-grown, by the thousand.

CUT FLOWERS of Carnations in season.

Chas. T. Starr,

AVONDALE, Chester Co., PA.

IT COSTS NO MORE TO

GROW GOOD CARNATIONS

THAN TO GROW POOR ONES.

We have a good stock of field-grown Carnations of all the best varieties. Send for price list.

Geo. Hancock,

GRAND HAVEN, MICH.

2000 FIELD-GROWN CARNATIONS

Best winter blooming sorts; fine plants, full of buds, at $8.00 per 100.

The same from 5 and 6-inch pots, $12.00 per 100. Cash with order.

☞Plants shipped same day orders are received.

HENRY SMITH FLORAL CO.,

130 Monroe Street, GRAND RAPIDS, MICH

CARNATIONS AND VIOLETS.

Strong, healthy plants. The leading varieties of Carnations and Marie Louise Violets.

LOUIS A. GUILLAUME, East Onondaga, N. Y.

FIELD GROWN CARNATIONS.

Roses & Smilax, from 2½ & 3-in. pots.

KEMBLE FLORAL CO., Oskaloosa, Iowa.

Field-Grown Carnations.

HINZE'S WHITE, PORTIA, PETER HENDERSON, per 100 $6.00.

I. L. PILLSBURY, Macomb, Ill.

CARNATIONS.

We have for sale the finest stock of Carnation Plants in the United States. Send for price list.

J. B. DEAMUD & CO., 45 Lake Street, CHICAGO.

When writing to any of the advertisers on this page please mention the American Florist.

Carnations, Violets, Pansies.

40,000 CARNATIONS.

Extra strong, healthy, field-grown plants. No rust. Per 100

6,000 Grace Wilder	$ 6 00
3,000 Portia	5 00
500 Fred Creighton	
600 Mayflower	
5,000 Orange Blossom	
4,000 Tidal Wave	
15,000 Hinze's White	
400 Anna Webb	
300 Silver Spray	
300 Garfield	
300 White Wings	

Other varieties in small quantities.

2,000 Marie Louise Violets, fine healthy stock, field-grown 7 00

The Jennings Strain of large-flowering and fancy Pansies, 65c. per 100 by mail; $5 per 1000 by express; 5000 $20. White and Yellow, separate colors, same price.

PANSY SEED. Finest mixed—pure white, yellow dark eye, each per trade pkt. 50c. and $1. Mixed per oz. $6. White or yellow $5 per oz.

Green's Farms is my nearest station on the line of New York, New Haven & Hartford R. R., 50 miles from New York, six minutes walk from depot.

Address **E. B. JENNINGS,**
Lock Box 254, **SOUTHPORT, CONN.**

We Have

A FEW HUNDRED EACH

MRS. FISHER	$ 6.00	per 100
AURORA	12.00	"
PURITAN	10 00	"
GOLDEN GATE	5.00	"

EDW. SWAYNE,
Kennett Square, Pa.

FIELD-GROWN

Carnations and Violets.

ALL STRONG, HEALTHY PLANTS.

	Per 100
Grace Wilder and Puritan	$ 8.00
Daybreak and Nellie Lewis	10.00
Portia, Lizzie McGowan, Lamborn, Tidal Wave and Emily Pierson	5.00
Marie Louise Violets	5.00

J. T. LOVETT CO.,
LITTLE SILVER, N. J.

FIELD-GROWN CARNATIONS.

Strong, healthy plants. Mrs. Fisher, Portia, Garfield, Hinze's White, L. L. Lamborn, Lizzie McGowan, Buttercup, Golden Gate.

Roses, best forcing sorts, from 3-inch pots. Heinl's Monthly Pelargonium, and Cyclamen, from 2½ and 3-inch pots Low cash prices on above stock on application. I will take Ferns and Double White Primrose in exchange.

Niphetos and Perle, from 2-inch pots, $2.00 per 100; $15 00 per 1000.

Smilax, from 2-inch pots, $10.00 per 1000.

Cash with order. Sample free.

JOSEPH HEINL, JACKSONVILLE, ILL.

5000 FIELD-GROWN

CARNATIONS

Fine large clumps, have all the leading varieties, such as Portia, Fred. Dorner, Ferd. Maugold Silver Spray, Mrs. Fisher, Hinze's White, Tidal Wave, Delight, and 15 other fine varieties. Write soon and get choice. Will sell cheap for the next 30 days. First here first served. Address

MARION AND MAPLE HEIGHTS GREENHOUSES,
Marion, Ind.

FIELD-GROWN CARNATIONS

of the following varieties:

Hinze's White, Silver Spray, White Wings, Lizzie McGowan, Grace Wilder, Portia, Tidal Wave, J. J. Harrison, Starlight, Golden Gate, and other varieties; good healthy plants, free from disease and in bud and bloom. Send for price list.

J. A. TRACHT & SON, Galion, Ohio.

CHEAPEST EVER OFFERED.

FIELD-GROWN CARNATIONS, extra fine,
$4.00 per 100; $35.00 per 1000.

Hinze's White, Portia, Garfield, Silver Spray, Mrs. F. Mangold, pink.

FICUS ELASTICA, 20 to 24 inch.....$6.00 per dozen.
" " 15 to 18 inch..... 4 00 "

ADDRESS **GEORGE A. HEINL, 337 Summit Street, TOLEDO, OHIO.**

50,000 CARNATIONS,

Portia, Lizzie McGowan, Garfield, Hinze's, Pr. of Kennett, Hinsdale, Lamborn, Mrs. F. Mangold, Grace Wilder. Fine, stocky, field-grown plants; perfectly healthy. Shipped by our improved method of light packing to almost any part of the country. **Price, $5 00 per 100.**

POSITIVELY NO RUST. NEVER HAVE HAD IT ON OUR CARNATIONS.

ROSES. We still have a few thousand strong, healthy and vigorous plants. PERLES, in 4-inch pots, $10 per 100. PERLES, MERMETS, BON SILENE, SAFRANO, LA FRANCE, 3-inch pots, $7.00 per 100.

J. L. DILLON, BLOOMSBURG, PA.

40,000 Carnations.

FIELD-GROWN. FREE FROM RUST.

	Per 100
7000 Grace Wilder	$ 6.00
5000 Portia	5.00
3000 Tidal Wave	5.00
5000 Orange Blossom	5 00
2000 Fred. Creighton	5.00
2000 Silver Spray	5.00
500 Lamborn	5.00
500 Anna Webb	5.00
500 Garfield	5.00
500 White Wings	5.00
500 Snow Bird	5.00
500 Lizzie McGowan	5 00
200 Mayflower	5 00
15,000 Hinze's White	5.00
Also extra fine strain of Pansies. Large flowers and fancy colors. Large flowering plants	1.00 per 1000, $8.00.
Cold frame size, by mail	per 1000 $5.00; .65

CASH WITH ORDER.

Address **GEO. B. WHITEHEAD,**
Lock Box 116. **Greens Farms, Conn.**

CARNATIONS

Strong, healthy, field-grown plants.

PORTIA	$ 7 00	per 100
LIZZIE McGOWAN	7 00	"
GRACE WILDER	7 00	"
TIDAL WAVE	8 00	"
ANNA WEBB	8 00	"
HINZE'S WHITE	8 00	"
GARFIELD	8 00	"
FRED. DORNER	8 00	"
AURORA	8 00	"
NELLIE LEWIS	10 00	"
DAYBREAK	12 00	"

MARIE LOUISE VIOLETS, $3, $4 and $5 per 100.

ADDRESS **N. S. GRIFFITH,**
Jackson Co. INDEPENDENCE, MO.

Independence is well located for shipping, being 8 miles East of Kansas City, Mo.

30,000

CARNATIONS, FIELD-GROWN.

Strong, healthy plants.

American Flag, Portia, Garfield, Hector, Mrs. F. Mangold, Hinze's White, Grace Wilder, Lamborn, Golden Gate, Robert Craig.

$5.00 per 100.

FERNS.—A fine lot of Pteris and Adiantums, 2 and 3-inch pots, for florists' use. Write for prices—very low.

Evenden Bros.,
WILLIAMSPORT, PA.

FIELD-GROWN CARNATIONS.

I offer the following varieties in quantity; all strong, healthy plants, ready Sept. 10th:

Mrs. Fisher, L. L. Lamborn, Puritan, Lizzie McGowan, White Dove, Angelus, Daybreak, Mrs. Ferd. Mangold, Thos. Cartledge, Emily Pierson, Wm. F. Dreer, Golden Gate, Peachblow Coronet, Cæsar. A number of other kinds in small lots. Correspondence solicited.

C. J. PENNOCK, The Pines, Kennett Square, Pa.

FIELD-GROWN

CARNATIONS.

30,000 FIRST-CLASS PLANTS.

Nellie Lewis, Puritan, Portia, McGowan, American Flag, Daybreak, Annie Wiegand, J. J. Harrison, Hinze's White, Tidal Wave and other varieties.

Send us a list of what you want, and get our *Special low* prices.

VICK & HILL, Rochester, N. Y.

ROSES.

Fine healthy stock. Per 100 P. 1000

Perles, Mermets, The Bride, Sunset, Niphetos, Bon Silene, Souv. d'un Ami, Duchess of Albany, Mme. Cusin, Mme. de Watteville, from 3-in. pots..... $8.00 $75.00

CARNATIONS. Fine, healthy stock.

PURITAN, best white, early and productive. **Aurora, Grace Darling, Lizzie McGowan, Golden Triumph, Constance, W. F. Dreer, Tidal Wave, J. R. Freeman, Silver Spray, Grace Wilder, Portia, The Century, John McCullough, Orange Blossom.**

Price, 1st size, $8.00 per 100; $70 00 per 1000.
2nd size, $6.00 per 100; $50.00 per 1000.

Daybreak, Pearl, Crimson Coronet.
Price, $10.00 per 100.

NOTE.—Our carnations have been kept sprayed and are in fine, healthy condition.

SMILAX, from 2¼-inch pots..... 2.50 20.00

Lots of other Fine Stock.
Send for new list.

WOOD BROTHERS,
Fishkill, N. Y.

The Grand New Forcing Rose.

"American Belle."

Prices and full particulars on application.

John Burton, Chestnut Hill, Philadelphia

ROSES.

	Per 100	Per 1000
2000 Perle, 3-inch	$ 5.00	$40.00
1000 " 2½-inch	3.00	25.00
600 Bride, 2½-inch	3 00	25.00
1200 Mermet, 2-½-inch	3.00	25.00
100 Waban, 2½-inch	3.00	
200 Hoste, 2½-inch	3.00	
150 Am. Beauty, 4-inch	10.00	
300 Mme. Testout, 3-inch	15.00	

BROWN & CANFIELD, Springfield, Ill.



ROSES WANTED

in exchange for Palms, Florida Plants, etc. Send for list of sorts, size, quantity and price.

Also all write for large **Catalogue.**

REASONER BROS.
Oneco, Florida.

Roses. Adiantums.

Perle, 3-inch	5 cts.	La France, 3-inch	6 cts.
Watteville, 3-in	5 cts.	Albany, 3-inch	6 cts.
Mermet, 3-in	5 cts.	White La France, 3½-inch	8 cts.
Waban, 3½-in	5 cts.	Meteor, 3½-in	6 cts.
M. Niel, 3½-inch	10 cts.	Bride, 3½-in	6 cts.
Climb. Perle, 5-in.	20 cts.		

ADIANTUMS—Strong crowns.

3-inch	6 cents.
4-inch	10 cents.
5-inch	15 cents.

Address **J. T. WILLIAMSON,**
or LA ROSE GARDENS,
P. O. Box 49. **MEMPHIS, TENN.**

Please mention the AMERICAN FLORIST every time you write to an advertiser.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Chrysanthemum Shows.

Pittsfield, Mass., Oct. 31-Nov. 3—Berkshire County Gardeners' and Florists' Club. W. M. Edwards, Sec'y, 103 Howard St., Pittsfield, Mass.

Baltimore, Nov. 6-11—Gardeners' Club of Baltimore. Wm. McRoberts, Jr., Sec'y, 304 W. Madison St.

New York, Nov. 6-13—New York Florists' Club. John Young, Sec'y, 53 West 30th St. Henry McCrowe, manager of exhibition, Grand Central Palace.

Milwaukee, Wis., Nov. 7-9—Milwaukee Florist Club. A. Klokner, Sec'y, 219 Grand Ave.

Newport, R. I., Nov. 7-9—Newport Horticultural Society. John J. Butler, Sec'y, P. O. box 313.

Hartford, Conn., Nov. 7-9—Hartford County Hort. Society. Edw. S. Young, Sec'y, 60 Oak St.

Toronto, Ont., Nov. 7-10—Toronto Gardeners' and Florists' Association. A. H. Ewing, Sec'y, 85 Carlton St.

Boston, Nov. 7-10—Massachusetts Horticultural Society. Robert Manning, Sec'y, 101 Tremont Street.

St. Louis, Nov. 7-10—St. Louis Florists' Club. E. Schray, Sec'y, 4101 Pennsylvania Ave.

Indianapolis, Ind., Nov. 7-11—Society of Indiana Florists. Wm. G. Bertermann, Sec'y, 37 Mass. Avenue.

Philadelphia, Nov. 7-11—Pennsylvania Horticultural Society. D. D. L. Farson, Sec'y, Broad St.

Worcester, Mass., Nov. 8-9—Worcester County Hort. Society. Edw. W. Lincoln, Sec'y.

Montreal, P. Q., Nov. 8-10—Montreal Gardeners' and Florists' Club. Henry Stocking, Sec'y, 230 St. Denis St.

Providence, R. I., Nov. 8-10—Rhode Island Hort. Society. C. W. Smith, Sec'y, 61 Westminster St.

Springfield, Mass., Nov. 14-16—Hampden County Hort. Society. Joseph Booth, Sec'y, care of Springfield Institution for Savings.

Washington, Nov. 14-17—Florists' Club of Washington. G. W. Oliver, Sec'y, 1844 8th St., N. W.

Chicago, Nov. ——Horticultural Society of Chicago. W. C. Egan, Sec'y, Highland Park, Ill.

Catalogues Received.

Z. De Forest Ely & Co., Philadelphia, bulbs and seeds; John H. Ley, Anacostia, D. C., decorative plants; L. W. Carr & Co., Erie, Pa., nursery stock; John Lewis Childs, Floral Park, N. Y., gladioli, irises, etc.; Hoopes Bros. & Thomas, West Chester, Pa., trees and shrubs: Sam'l C. Moon, Morrisville, Pa., trees and shrubs; Alexis Dalliere, Ghent, Belgium, decorative plants; Jos. Breck & Sons, Boston, bulbs and plants; T. W. Wood & Sons, Richmond, Va., seeds and bulbs; Levavasseur & Sons, Ussy, France, plants, trees and shrubs.

G. M.—We do not print articles from writers unknown to us. And even had you signed your full name and address we would not care to print the article in its present form. We would, however, be glad to print a description of the exhibition held in your city.

WHEN SENDING us newspapers containing items you wish us to note please do not fail to distinctly mark the item so it can be easily found, as we can not spare the time to hunt through the mass of papers sent us for unmarked items.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

"JACQ" ROSES the Year Around.

We are now Cutting THOUSANDS DAILY of

* METEOR ROSES. *

The finest Crimson Summer Rose, equal to "Jacq" in color and far superior in keeping qualities. Can supply it in quantity at all times. Prices on application.

F. R. PIERSON COMPANY,
Tarrytown-on-Hudson, N. Y.

NOTICE.

After Oct. 15, Chrysanthemums that are mums. I will have mums that will have no superiors; they will be "Prize Winners" and don't you forget it.

FOR NOW: AMERICAN BEAUTIES, METEORS and a variety of ROSES. CARNATIONS, in variety. LILY OF THE VALLEY, ORCHIDS, ASPARAGUS and ADIANTUM.

Send in your orders and have them promptly filled, properly packed, and shipped on time.

T. J. CORBREY, Wholesale and Commission Florist,
PHONE, MAIN 4508. 45 Lake St., CHICAGO.

FOR DECORATING, NOTHING CAN EQUAL
ASPARAGUS PLUMOSUS NANUS.
CUT STRINGS 8 TO 12 FEET LONG, 50 CTS. 12 TO 18 FEET LONG, $1.00.
Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.
W. H. ELLIOTT, Brighton, Mass.

THE CHICAGO CUT FLOWER EXCHANGE

The First Annual Meetiug of the Stockholders of the Chicago Cut Flower Exchange will be held on Friday morning, October 27th, 1893, at 10 o'clock, at 45 Lake Street, for the purpose of electing a Board of Directors, and transactiug such other business as may be brought before the meeting.
T. F. KEENAN, Asst. Sec'y.

NOW READY!
VOLUME VIII
. . OF THE . .
AMERICAN FLORIST
BOUND
in Half Leather. A valuable reference book of 1392 pages, bound in style uniform with preceding volumes.
PRICE $3.00 by Express not prepaid.
AMERICAN FLORIST CO.,
P. O. DRAWER 164. CHICAGO.

SMILAX.
Good, strong plants, 2½-inch pots, $2.00 per hundred; $18.00 per thousand.
Address P. M. DeWITT, Torresdale, Phila., Pa.

VARIEGATED VINCAS.
Three hundred field-grown Vincas, Six Dollars per hundred.
JOHN C. HATCHER, Amsterdam, N. Y.

SEND FOR A COPY
—OF OUR—
TRADE DIRECTORY
AMERICAN FLORIST CO., CHICAGO

WHOLESALE FLORISTS
LaRoche & Stahl
N. E. CORNER
13th & Chestnut Sts.,
PHILADELPHIA.
Mention American Florist.

SAMUEL S. PENNOCK,
Wholesale Florist
REMOVED TO REAR OF 42 S. 16th ST.,
Philadelphia, Pa.

DAN'L B. LONG,
COMMISSION • FLORIST,
495 Washington St., BUFFALO, N. Y.
FORCING BULBS, FLORISTS' SUPPLIES, LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application.

HARDY CUT FERNS
LAUREL FESTOONING,
SPHAGNUM MOSS,
IN ANY AMOUNT ALWAYS ON HAND.
H. E. Hartford,
18 Chapman Place, BOSTON, MASS.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO.
Western Agent for the GREAT ANTIPEST.

Kennicott Bros. Co.
WHOLESALE CUT FLOWERS,
34 & 36 RANDOLPH STREET,
CHICAGO, ILL.
WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
126 Dearborn Street, CHICAGO.
Store Closes Nights 9 P. M.; Sunday 2 P. M.

NILES CENTER FLORAL CO.
Incorporated.
WHOLESALE GROWERS OF
CUT FLOWERS of ALL KINDS
and Dealers in FLORISTS' SUPPLIES.
CHAS. W. McKELLAR, Mgr.
In Chicago Cut Flower Exchange,
45 Lake St., CHICAGO.

T. J. CORBREY,
Wholesale and Commission
FLORIST,
45 Lake St., CHICAGO, ILL.
In Chicago Cut Flower Exchange. . . .

J. B. DEAMUD & CO.
WHOLESALE CUT FLOWERS,
We have the finest stock of all varieties of Roses in the West. Shipping orders promptly attended to.
45 LAKE STREET, CHICAGO.
CUT FLOWER EXCHANGE,
Mention American Florist.

H. L. SUNDERBRUCH,
Wholesale Florist
4TH AND WALNUT STREETS,
Cincinnati, O.

W. ELLISON,
WHOLESALE
Cut Flowers and Florists' Supplies
1402 PINE STEET,
St. Louis, Mo.

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
WHOLESALE
FLORIST,
1122 PINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

Please mention the American Florist every time you write any of the advertisers on this page.

Wholesale Markets.

Cut Flowers.

NEW YORK, Sept. 30.	
Roses, Gontier	1.00
" Meteor	2.00@ 6.00
" Beauty	5.00@15.00
" general assortment	1.00@ 3.00
Carnations	1.00@ 2.00
Gladiolus	1.00@ 1.50
Valley	6.00
Auratum lilies	4.00
Asters	.50
Smilax	10.00@12.00
Adiantums	1.00
BOSTON, Sept. 30.	
Roses	2.00@ 4.00
Carnations	2.00
Asters	.50@ 1.00
Gladioli	1.00@ 1.50
Lily of the valley	5 00
Tuberoses	.50@ 1.00
Smilax	12.50
Adiantum	1.00
Asparagus plumosus	50.00
PHILADELPHIA, Sept. 30.	
Roses	2.00@ 5.00
" Beauties	12.00@15.00
" Meteors	5.00
Carnations	1.00
Asters	1.00
Gladiolus, tuberoses	2.50@ 3.00
Valley	4.00
White hollyhocks	.75@ 1.00
Balsams	.25@ .50
Adiantum	.75@ 1.00
Smilax	12.00@15.00
Asparagus	60.00@75.00
CHICAGO, Oct. 3.	
Roses, Perles, Guillot, Niphetos	2.00@ 3.00
" Albany, Bride	3.00@ 4.00
" Meteor	5.00
" Beauties	8.00@15.00
Carnations	.50@ 1.00
Valley	5.00
Smilax	12.00@15.00
Asparagus	75.00
ST. LOUIS, Oct. 1.	
Roses, Bon Silene, Perle, Niphetos	2.00@ 3.00
" Bride, Mermet, Watteville	3.00@ 4.00
" Hoste	2.00@ 3.00
" Meteor	4.00@ 5.00
" Wootton, La France	3.00@ 4.00
" Beauty	10.00@15.00
Carnations, short	.75
" long	1.00@ 1.50
Violets, single	.25
Smilax	12.00@18.00
Adiantum	1.25
CINCINNATI, Oct. 1.	
Roses, Beauty	5.00@15.00
" Mermet, Bride, La France	3.00@ 4.00
" Perle	3.00
Carnations, long	1 00@ 1.50
" short	.50
Valley	4.00
Asparagus	50.00@75.00
Smilax	15.00
Adiantum	1.00@ 1.50
BUFFALO, Oct. 2.	
Roses, Beauties	8.00@20.00
" Gontier, Niphetos, Hoste	3.00@ 4.00
" Mermet, Bride, Testout, Meteor	4.00@ 5.00
Carnations, long	1.25
" short	.75
Valley	4.00
Smilax	12.00@15.00
Asparagus	50.00

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers and Florists' Supplies
WHOLESALE.
67 Bromfield Street, BOSTON, MASS.

WHOLESALE
FLORISTS,
JOBBERS IN . . .
. . FLORISTS' SUPPLIES,
METS,
BRIDES,
GONTIERS,
CARNATIONS,
ALWAYS ON HAND.
FLORISTS' VASES.
1 Music Hall Place,
BOSTON, MASS.
HORTICULTURAL AUCTIONEERS. . .

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St., BOSTON, MASS.

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN AND SHIPPERS OF
Choice Flowers.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST.
32 West 30th Street, NEW YORK.
Roses Shipped to all Points. Price list on application.

JOHN YOUNG,
Commission Dealer in
CUT FLOWERS.
WHOLESALE.
53 WEST 30TH ST., NEW YORK.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS,
51 W. 30th St., NEW YORK.

JAMES HART,
WHOLESALE FLORIST,
117 W. 30TH ST., NEW YORK.
The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHRS,
WHOLESALE
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.
Established 1879.

MILLANG BROS.,
Wholesale Florists,
17 WEST 28TH STREET,
NEW YORK.
BRANCH: Cut Flower Exchange, 408 E. 34th Street.

MICHAEL A. HART,
Wholesale and Commission Florist
113 WEST 30TH STREET,
. . . NEW YORK.
THE FINEST ROSES AND CARNATIONS.
Branch, at Cut Flower Exchange, 408 E. 34th St.

EDWARD C. HORAN,
34 W. 29th Street, NEW YORK,
Wholesale Florist
Careful Shipping to all parts of the country.
Price list on application.

CUT SMILAX,
15 cts. per string till November 1st. Quality first-class. Special attention to orders by wire.
J. E. BONSALL & SON, 308 Garfield Ave., Salem, O

When writing to any of the advertisers on this page please mention the American Florist.

Philadelphia.

Chrysanthemums at W. K. Harris' are looking well. He makes no special effort to get early blooms, believing that there is more profit and less competition in the late croppers. Eldorado, which used to be his best early yellow, does not grow well for him now, he says, and he will discard it hereafter. One bad fault with this variety is the stiffness and brittleness of the petals, which are apt to break off with any rough handling. Mr. Harris has only about 65 seedlings this season.

No prettier sight can be imagined than Mr. Harris' houses of rubbers. Having been taken in from outside but recently the tops have that rich red color which comes from plenty of sunlight, and makes these plants so much more attractive. Most of them are in those famous plate glass houses, and not a speck of blister or burn is to be found on them, and Mr. Harris is confident that his theories will be supported by the results, even though his facetious critics accuse him of having "more money than wit." His Edna Craig carnations are in splendid shape, as are also the McGowans. These are the only carnations he grows with the exception of a few odds and ends, among which are two very promising seedlings of last year.

DETROIT, MICH.—It has been decided not to attempt a chrysanthemum show in this city this year.

FRAMINGHAM CENTER, MASS.—William Nicholson has built a new house 150x20 for carnations, heated by steam.

BAY CITY, MICH.—It has been decided by the Bay County Hort. Society not to give a chrysanthemum show this year.

WORCESTER, MASS.—Lars J. Lundblad, who has for the past fifteen years been gardener at the Lunatic Hospital grounds here, committed suicide on September 25, by shooting himself. The cause assigned for the act is despondency. He leaves a wife and three children.

SOUTH WEYMOUTH, MASS.—The annual fair of the Weymouth Agricultural and Industrial Association was held during the past week. The horticultural department was not as well filled as in previous years, but the flowers, fruits and vegetables shown were of excellent quality and creditable to the exhibitors.

CYCLAMEN persicum giganteum, 3 inch pots $6.00 per 100
PANSIES, Mammoth Strains, 75 cts. per 100 $5.00 per 1000.
CARNATIONS, Dorner's Seedlings, $15 per 100
Daybreak . $8.00 to $10.00 per 100
McGowan, Puritan, Wilder, and others, $8.00 per 100. Second size $6.00 per 100
Correspondence solicited.
Address **J. G. Burrow,**
FISHKILL, N. Y.

VIOLETS. ROSES. VIOLETS.
Our violets are positively free from disease.

	Per 100	Per 1000
Violets Marie Louise, fine cuttings	$ 2.50	$25.00
Roses Gen. Jacqueminot, from 3-in. pots.	8.00	75.00
Roses Gen. Jacqueminot, from 4-in. pots.	6.00	55.00
English Ivies, 4 to 6 feet long, pot grown.	5.00	

When ordering, give directions how to ship. Cash with order, 5 per cent. discount.
JOHN RECK, Bridgeport, Conn.

CHINESE SACRED NARCISSUS
and all other Bulbs
NOW READY.
WISCONSIN FLOWER EXCHANGE,
468 Milwaukee St., Milwaukee, Wis.

FALL BULBS, PALMS, ETC.
LILIUM CANDIDUM, large, plump, solid bulbs, per 100 $2.75; per 1000 $23.00.
FREESIAS, clean, large, healthy bulbs, first size $4.50; select $7.50 per 1000.
ROMANS, PAPER WHITE NARCISSUS, and a **FULL LINE** of all Fall Stock.
CHINESE NARCISSUS, genuine imported, ready, per 100 $5 50.
LILIUM AURATUM, genuine imported, ready, per 100 $8.00.
CALLAS, fine, medium sized bulbs, per 100, $5.00.
ROSE C. SOUPERT, 2½-inch, fine stuff, per 100 $3.50; 3½-inch, per 100 $8.00.
LATANIAS, 4-inch stuff, grown cold, well rooted, 3 to 5 character leaves, ready for 5-inch pots, per dozen, $4 00; per 100, $30.00.
PHŒNIX RECLINATA, 5-inch, good value at doz. $5.00.
PHRYNIUM VARIEGATUM, 3-inch, dozen $1.50; 4-inch dozen $4.00; 5-inch, dozen $6.00; 6-inch, dozen $9.00; 7-inch, dozen $12 00.
PANSY PLANTS, very fine, per 1000, from seed bed, $5.00.
BOUQUET GREEN now in stock, (order early), per 100 lbs. $5.50.
Vaughan's Seed Store,
148 W. Washington St., CHICAGO. 26 Barclay St., NEW YORK.

MAMMOTH BULBS
LILIUM HARRISII FOR EXHIBITION
Purposes and for growing **Specimen Plants.** Very choice and scarce.
PRICE, $25.00 per hundred.
Also a fine lot of 5 to 7, and 9 to 11.
PRICE, 5 to 7, $3.00 per hundred; $25.00 per thousand.
9 to 11, $12.00 per hundred.
F. R. PIERSON COMPANY,
TARRYTOWN-ON-HUDSON, N. Y.

HYACINTHS, TULIPS.
Full assortment ready now. Our stock is A No. 1 in every way.
Lil. Longiflorum, 7-9 in. $5.50 per 100.
MUSHROOM SPAWN.
New importation ready this week. 10 pounds for $1.20; 100 pounds $8 00.
PANSY SEED.
BARNARD'S FflorIST MIXTURE is popular wherever tried. Trade packet, 25 cts.; ⅛ ounce, $1.00.
W. W. Barnard & Co.
6 and 8 N. Clark Street, CHICAGO.
☞ Send for Fall Bulb Catalogue.

Bulbs.
New List now ready; free to applicants. Address . . .
August Rölker & Sons,
P. O. Station E, NEW YORK.

Bulbs and Plants.
FOR CATALOGUES, ADDRESS
C. H. JOOSTEN,
IMPORTER,
3 COENTIES SLIP, NEW YORK.

BULBS! BULBS!
Lilium Auratum, Spec. Rubrum, Spec. Album, Longiflorum, etc. Order now.
Callas, Callas, at lowest rates: Fresh Cut Cycas leaves, prices and sizes to suit all. Fresh imported Cycas, lowest prices. Camellias, Pæonias, Japan Maples, and for general Japanese stock seeds. Remember we guarantee sound delivery, still goods travel at owner's risk. Apply to
F. GONZALEZ & CO.,
Nursery and Greenhouses, 303 to 312 Wayne Street, SAN FRANCISCO, CAL.
Mention American Florist.

HULSEBOSCH BROS.,
BULB AND PLANT GROWERS,
OVERVEEN, near Haarlem, HOLLAND.

	Per 100	1000
Lilium Harrisii, 4 to 5-inch in circ.	$1.75	$16.00
" " 5 to 7-inch in circ.	2.50	20.00
" " 7 to 9-inch in circ.	4.75	42.00
Roman Hyacinths, top roots	3.00	24.00
" " selected	2.25	21.00
" " regular size	2.00	19.00
Italian, blush white Roman, selected	2.50	21.00
Freesia refracta alba	.75	5.00
Narcissus totus albus	.90	6.50
" " " grandiflorum	1.25	10.00
" Chinensis (Sacred Lily), extra	5.50	50.00
Single Tulips, mixed, gardening	.75	6.00
Double " " "	.90	7.00
Single " " extra fine	.85	7.50
Double " " extra fine	1.00	8.00
Single garden hyacinths, mixed	2.25	18.00
Double " " "	2.50	22.00
Single forcing " "	2.50	21.00
Double " " "	3.00	25.00

Single and double named Hyacinths, Tulips, Crocus, etc., etc., at low rates.
A. HULSEBOSCH,
P. O. Box 3118. Warehouse, 58 West Street,
NEW YORK CITY.
Mention American Florist.

Z. DeForest Ely & Co.
WHOLESALE SEEDSMEN,
Growers AND Importers of Bulbs.
JOBBERS IN
Florists' Supplies,
1024 MARKET STREET,
PHILADELPHIA, PA.
Reg. Cable Address: DeForest, Phila.
Price lists to dealers on application.

G. J. MOFFATT,
Manufacturer of
PAPER BAGS AND ENVELOPES
Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN, CONN.
When writing mention the AMERICAN FLORIST.

Bulbs. Bulbs. Bulbs.

BEST STOCK AT MOST REASONABLE PRICES.

We guarantee to you **SOUND DELIVERY** at point of destination, accidents to carriers excepted. We give you **NET** prices of all goods if desired, showing you to a penny cost with all charges of freight, etc. included.

For Delivery NOW:

Auratum, Rubrum, Album, and 30 other sorts of Japan Lily bulbs. Great assortment of California BULBS.

Plants, for Decoration: Can be shipped throughout Fall by freight:
Araucaria excelsa in finest stock. Rhapis flabelliformis, or Humilis. Aspidistra variegata. Cyperus alternifolius, in strong clumps.

SEEDS. SEEDS. SEEDS.

Australian and California Palm seeds. Japan and California Conifer seeds. Flower seeds.

PAMPAS PLUMES. New Crop. Eulalia Japonica Plumes. Cycas revoluta Leave dried. Order NOW.

Orders must reach us by November 1st, as collections of stems are made during December only: **CYCAS REVOLUTA STEMS.**

Will furnish the **long leaved Cycas** at lowest prices ever offered. Send for our Trade List. We furnish cheerfully any information desired, give estimates of cost, etc.

ADDRESS **H. H. BERGER & CO.,**

Established 1878 **SAN FRANCISCO, CALIFORNIA.**

300 CASES
Lilium Harrisii or Easter Lilies.

250 BULBS TO A CASE. PRICE $13.50 EACH.

This is a **Special Shipment of Extra Choice Bulbs,** which have just been received. They range in size from 7 to 9 inches, and **are the Finest we have ever Imported.**

100 CASES
Pure White Roman Hyacinths.

SIZE, 11X12 C. per 100, $2.00; per 1000, $15.00.
12X15 C. " $2.50; " $20.00.

200,000 Fine Mixed Varieties Hyacinths.

Double or Single and Colors Separate. Per 100 $2.50; per 1000 $22.00.

1000 BASKETS OF 30 BULBS EACH CHINESE SACRED LILIES.

Per Basket, $2.00.

ROBERT BUIST Jr., Philadelphia, Pa.

PANSIES.

THE BEST ARE THE CHEAPEST.

My customers say that mine are the best they can buy in all that goes to make good Pansies, **size, color, form and substance.** Try them, and you will say so yourself. They are better this season than ever, and if you don't want more, get a hundred for comparison with others you grow.

The **Plants** are good as well as the strain, and for the asking I will mail you an honest sample. **Price free by mail 75 cts. per 100, or $3.00 per 500; by express $5.00 per 1000.**

Half a Million ready during October. Cash with the order or C. O. D.

L. B. 496. **ALBERT M. HERR, LANCASTER, PA.**

ZIRNGIEBEL GIANT PANSIES.

100,000 PLANTS, AT $5 00 PER 1000.

DENYS ZIRNGIEBEL,
Needham, Mass.

SUPERB PANSIES.

My "Rainbow Mixture"

is a combination of the very best strains in existence, and is sure to give satisfaction. Young plants 65 cents per 100 by mail; $5.00 per 1000 by express. Cash with order or C. O. D.

GEORGE CREIGHTON, Poughkeepsie, N. Y.

PANSIES.

Buy no other than the pure German strain, giant flowering and other sorts; fine plants from seed bed now ready. 50 cts. per 100; $4 00 per 1000.

WILL AUSTIN, Box 810, Geneseo, Ill.

PANSIES.

Best mixture of German bedding varieties now ready, per 1000 $5.00; per 100 60c.
We have also separate colors, ready in two weeks.

BRAUER & RICHTER,
McCONNELSVILLE, OHIO.

PANSY PLANTS.

¾ from seed of my own production. ¼ my importation. Guaranteed equal to any sold at the price, 70c. per 100 by mail; $5.00 per 1000 by express.

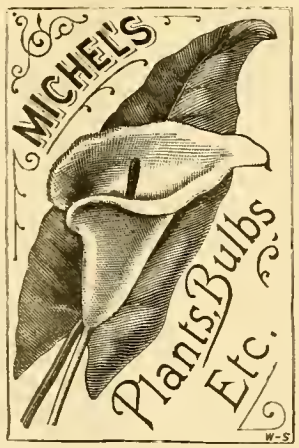
W. J. ENGLE, box 211, Dayton, O.

VIOLETS.

500 MARIE LOUISE.

Nice, healthy, clean and well rooted plants, from 3½-inch pots, $7.00 per 100

F. CALVERT & SON, Lake Forest, Ill.



Write for Wholesale List.

MICHEL PLANT AND BULB CO., ST. LOUIS, MO.

ASPARAGUS PLUMOSUS NANUS.

HERE THEY ARE!

And look at the price for fine plants, in 4-inch pots, good enough to retail this winter for a dollar each. No florist should be without this salable plant.

$20 00 PER 100.

Cash with order or C. O. D.

ALEX. SCOTT,

Balto. Co., Lauraville, Md.

Mention American Florist.

New, Rare and Beautiful Plants,

ETC., ETC.

A large collection of Hothouse and Greenhouse Plants, carefully grown, at low rates.

RARE AND BEAUTIFUL EVERGREENS, ORNAMENTAL TREES, SHRUBS, &c

ORCHIDS—a very extensive stock; East Indian, Mexican, Central and South American, etc.

Hardy Perennials, Pæonies, Phloxes, Japanese Iris, Roses, Clematis, etc. New and Standard Fruits, etc.

☞Catalogues on application.

JOHN SAUL, Washington, D. C.

CHOICE SWEET PEAS.

Being the largest growers of the above in the world the trade are invited to send a list of their requirements and secure low prices for Fall delivery.

SHERWOOD HALL NURSERY CO.

Menlo Park and San Francisco, Cal.

CHOICE STOCK FOR FLORISTS.

Acalypha tricolor, strong stocky plants, from bed, $10.00 per 100.
Sanchezia nobilis variegata, grand new bedding plant rivaling the croton, free grower, strong pot plants, $2.00 per dozen.
Echeveria secunda glauca, $2.00 per 100.
Cannas—A. Bouvier, J. D. Cabos, Capt. Suzzoni, Paul Marquant, $20.00 per 100. Cash.

WM. TRICKER, DONGAN HILLS NEW YORK.

Fern

PTERIS TREMULA, in 2 and 2¼-inch pots, $4.00 per 100. $3.50 in 500 lots.

Cash with order. Address

R. WITTERSTAETTER,
SEDAMSVILLE, OHIO.

CLEMATIS.

Large flowering, colors in variety, double and single, strong blooming plants. Plenty of Jackmanni and Henryi, best purple and white, $3.00 per dozen; $20.00 per 100. Send for list.

CYCLAMEN persicum splendens, blooming bulbs, $8.00 per 100.

Snowflake Daisy, double white, $1.00 per 100.

Longfellow Daisy, double red, $1.00 per 100.

F. A. BALLER, Bloomington, Ill.

Had Felt the Influence.

LADY CUSTOMER—What a charming occupation yours is! It must be so refining to be in constant contact with the elevating influence of the most lovely creations of nature!

FLORIST—Yes indeed ma'm.

LADY CUSTOMER—What on earth is that awful racket?

FLORIST—Oh, nothing serious ma'm. One of my men came into contact with too much liquid refreshments again this afternoon, and the noise indicates that he has fallen into the stoke-hole and is expressing his opinion about the matter. He is a thoroughly competent man when he's sober. Been at the business all his life. And I hate to let him go, but will have to if these lapses come much more often.

LADY CUSTOMER—(Very thoughtfully) Oh!

A Terrible Danger Discovered!

"Don't put rose stems in your mouth, at least those raised in hothouses. Nearly every stem has poison on it, put there to kill bugs."—J. C. in *West Chester (Pa.) Local News.*

25,000 PEONIES.

IN ALL COLORS. Per 100

PINKS, assorted $10.00
OLD RED or CRIMSON 12.00
WHITES, assorted 15.00
DOUBLE TENUIFOLIUM 35.00
NAMED SORTS, assorted 15.00

Clematis, Iris Kæmpferii, Yucca filamentosa, and other hardy stock for florists' use.

Also a full line of

DUTCH AND FORCING BULBS

for fall planting.

THE JAMES KING SEED CO.,
98 Lake Street, CHICAGO.

PALMS.

150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

Address GEORGE WITTBOLD,
1708 N. Halsted St., CHICAGO.

TRY DREER'S GARDEN SEEDS,

Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.

HENRY A. DREER,
Philadelphia, Pa.

Kills Mildew and Fungus Growth.

What does? GRAPE DUST.

Sold by Seedsmen.

FOR SALE.

300 clumps Marie Louise Violets, $5 per 100. Cash with order. Good, healthy stock.

G. N. SAYLES, 40 Bradley St., Watertown, N. Y.

HOW TO GROW CUT FLOWERS.

A PRACTICAL TREATISE ON

THE CULTIVATION OF THE ROSE,

And Other Flowering Plants for Cut Flowers, sent to any address upon receipt of $2.00.

M. A. HUNT, Terre Haute, Ind.

HEADQUARTERS for CHRISTMAS TREES.

Selected Blue Spruce and Balsam Fir, in car lots, at BOTTOM PRICES.

EARLY CORRESPONDENCE SOLICITED.

W. D. Boynton, *Nurseryman*, Shiocton, Wis.

Florists and FLOWER 15 Varieties of Pansy Seed Trade Pkt, 500 Seeds, 10 cts.

MISS C. H. LIPPINCOTT, 319-23 SIXTH ST. S., MINNEAPOLIS MINN.

My trade list of the choicest and most desirable kinds for Florists' use. Ready next month. Send for it. Will save you money.

Giant Trimardeau Pansy 500 Seeds 15 cts. SEEDS

Market Gardeners

Siebrecht & Wadley,

ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.

Palms, ORCHIDS Roses,

and New Plants.

FRESH DRACAENA CANES NOW READY.

ORCHIDS.

The Finest Stock in the World.

SANDER'S,
ST. ALBANS,
ENGLAND.

Thirty minutes from London.

Our Mr. A Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

Established and Imported

ORCHIDS.

Ig. FORSTERMAN,

Newtown, N. Y.

JULES DE COCK'S NURSERIES

GHENT, BELGIUM.

OFFER TO THE TRADE OF GOOD PLANTS.

10,000 Araucaria Excelsa; 100,000 Begonia Bulbs.
30,000 Azalea Indica; 20,000 Azalea Mollis.
100,000 Palms, different sorts, all sizes.
10,000 Laurel Bays, Standards and Pyramids.

Immortelles, white and other colors, at $3 the dozen bunches. Natural yellow, at $2.25.

Cycas Leaves (Sago Palms), natural prepared, equal to fresh cut in appearance, from 28-in. upwards, at 40c., 45c., 50c., 60c., 75c. and $1.00 each, according to length.

Metal Designs, Wreaths, Crosses, Anchors, etc. in the latest French styles, from 50 cents net apiece upwards.

Baskets of all styles, Plain and Fancy, for School Commencements, Dinners, Receptions, Favors, etc.

Supplies of all kinds, such as Bouquet Papers, Wax Paper, Foil, Everlastings, Letters, Wire Designs, Funeral Sheaves, Doves, etc. For prices consult our

New Trade List out, mailed free.

August Rölker & Sons,
136 & 138 W. 24th St., P. O. Station E. New York.



WHITE DOVES

FOR FLORISTS.

Largest and finest stock in the United States. Write for prices to

S. J. RUSSELL,
850 Montgomery St., Jersey City, N. J.

For sale by all first-class dealers in Florists' Supplies.

You Will all Want

The New Yellow Coleus GOLDEN CROWN,
As it takes all others yellows down;
And will soon be all the go,
Because so very easy to grow.

There is nothing Pale or Weak about it. You can't afford to run without it; $3.00 per doz. Orders booked now for delivery November 1st, or as soon as ready. Or Gibson's beautiful scented Hybrid Pansies, 2000 seeds $1.00. Or Gibson's superb well mixed Hybrid XX and XXX Mammoth Verbenas, 2000 seeds 60 cts. and $1.00. Trial packet of XXX for 10 cts. in stamps. No better for florists' use ever offered anywhere; our own growing from stock composed largely of Climaxer and Beauty of Oxford and the choicest selection from the thousands of our fine seedlings, florets immense, many of them will nearly cover a silver half dollar, and of exquisite beauty and fragrance, and richest imaginable colorings. Try a packet and realize all there is in the verbena to date. Or the finest Double Fringed Petunia (Dreer's Strain), hybridized by hand, 1000 seeds $1.50. Snow Crest Daisy, $5.00 per 100. Other specialties later. Cash with order please.

Address J. C. GIBSON, Woodbury, N. J.

S. A. F. REPORTS.

GOOD READING CHEAP.

I have on hand a number of surplus copies of the reports of proceedings at the New York, Buffalo and Boston Conventions of the Society of American Florists. All parties wishing to procure copies of either or all of these can have them by applying and enclosing 25 cents in stamps for each, as long as they last.

Address WM. J. STEWART, Sec'y,
67 Bromfield Street, BOSTON, MASS.

A FIRST-CLASS

Certificate of Merit

—TO—

H. BAYERSDORFER & CO.

For the Best Exhibit of

FLORISTS' SUPPLIES.

The only Certificate of Merit awarded for Florists' Supplies at the S. A. F. Convention at St. Louis.

OUR FALL SPECIALTIES:

Celluloid Flower Baskets;
Pot Covers and Pedestals,
Ferneries in Nickel, Gold, Silver and Bronze.

The Latest Novelties in French and German

METAL WREATHS,
CYCAS LEAVES,
WHEAT SHEAVES.

NEW STOCK OF IMMORTELLES JUST ARRIVED PER S. S. SWITZERLAND.

Lowest Prices furnished on application.

H. Bayersdorfer & Co.,

56 N. 4th St.,

PHILADELPHIA, PA.

WHOLESALE ONLY.

Mention American Florist

MARSCHUETZ & CO.,

Florists' Supplies,

23 & 25 N. 4th St., PHILADELPHIA, PA.

Send for Catalogue.

HUNTINGTON SEED CO.

Florists' : Supplies,

66 E. WASHINGTON ST.,
INDIANAPOLIS, IND.

Standard Flower Pots, Dried Grasses, Fancy Baskets, Metal Designs. Trade Catalogue mailed free.

JAS. H. SCULL,

CRONLY, N. C., U. S. A.,

— Wholesale Dealer in —

HOLLY (EVERGREEN) **Holly** **Christmas** *TREES.*

Fancy decorated Pine Cones, Long Needle Pines, Decorating Bouquets, Mistletoe, Bay Trees, etc., etc. Write for low prices. Correspondence solicited.

TO STOTT GARDEN IMP'T CO.,
136 Liberty Street, New York.

Dear Sirs:—We have been using your **Distributer** and **Killmright** for six months and consider it a good thing. It is the best thing ever got out. For roses it is particularly good. It cures a rose plant of black spot and mildew and keeps them in a healthy and growing condition. We never use tobacco smoke now. It will certainly ultimately kill the mealy bug. We will keep it right along and want nothing else.

Signed BOLANZ BROS., Akron, O.

See Special Offer Aug. 3 and 17.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

LOUIS BOEHMER. **ALFRED UNGER.**

Extract of Wholesale Catalogue 1893-'94.

L. BOEHMER & CO.,

4, 5 & 28 Bluff, Yokohama, Japan.

PLANTS.

	Per 100
ACER POLYMORPHUM, the best red leaved variegated varieties, 18 inches to 2 feet	$15.00 silver.
" " " " " " 2 to 3 feet	18.00 "
AZALEA INDICA, single white, lilac, red, etc., strong bushy plants	15.00 "
ARDISIA CRISPA, beautiful red berries, 8 and 10-inch pot plants	20.00 "
CAMELLIA JAPONICA, fine plants out of pots, 15 to 18 inches high, double pink and red	15.00 "
" " " " " " " variegated & white	20.00 "
DAPHNE ODORATA, pink or white, 18 in. high, beautiful, scented, early flowering shrub	15.00 "
GARDENIA RADICANS fl. pl.	20.00 "
" GRANDIFLORA flore pleno	20.00 "
MAGNOLIA CONSPICUA, pot grown	20.00 "
" OBOVATA, red, pot grown	20.00 "
" " purple, pot grown	20.00 "
" STELLATA, pot grown	20.00 "
" KOBUS, pot grown	15.00 "
" HYPOLEUCA, pot grown	15 00 "
" PARVIFLORA ERECTA, beautiful, scented	20.00 "
" " PENDULA, " "	25.00 "
OLEA FRAGRANS, small yellow flower, very sweet scented shrub	20.00 "
PLECTOGYNE (Aspidistra) VARIEGATA, per 100 leaves	3.00 "
SYRINGA JAPONICA, pot grown	20.00 "
SCIADOPITYS VERTICILLATA, 1 to 1½ feet, open ground	25.00 "
" " 1½ to 2 feet, "	30.00 "
" " 2 to 2½ feet, "	35.00 "
" " 2½ to 3½ feet, "	45.00 "
DAVALLIA BULLATA Fern Designs, very nice	25.00 "
	Per 1000
DIOSPYRUS KAKI, Japanese Persimmons, 6 best varieties including seedless, open ground, from 3 to 4 feet	$30.00 "
JAPANESE PLUM TREES, open ground, 3 to 4 feet	50.00 "
" GIANT CHESTNUT TREES, open ground, 3 to 4 feet	45.00 "
CITRUS (Limonia) TRIFOLIA, the best stock for grafting oranges, and an excellent hedge plant (evergreen and thorny), open ground, 1 to 1½ feet	7.50 "
PEAR SEEDLING, best stock for grafting, open ground, pencil thickness, 2 to 3 feet	7.50 "
ELÆAGNUS LONGIPES, a new Japanese fruit	40.00 "

PRICES ARE FREE ON BOARD IN YOKOHAMA.

There is no danger in shipping any goods from here to the United States, we can prov sound arrival through the best and largest firms. REMEMBER THAT YOU RECEIVE FOR 100 GOLD DOLLARS about 165 silver dollars' worth of goods at the present low exchange. Freight to any United States point only 1½ gold per pound.

—— WE HANDLE FIRST RATE STOCK ONLY. ——

BANKERS: Hongkong & Shanghai Banking Corp ; Agencies: New York and San Francisco.

We are Headquarters for CYCAS REVOLUTA, the true long-leaved variety.

Collected Stems, Fronds and Roots cut off, per 1000 lbs. $50.

Please write to us before purchasing anywhere else, as we can give you best prices, and you can depend upon our packing, etc.

CABLE ADDRESS: **BOEHMER, YOKOHAMA.**

FICUS · ELASTICA.

An extra large stock of fine, strong plants.
Write for special prices.

ANDORRA NURSERIES, Chestnut Hill, Philadelphia, Pa.

Phœnix rupicola.

This useful and beautiful Date Palm in **EXTRA FINE PLANTS**, growing in from 7 to 10-inch pots, from $3.50 to $7.50 each, according to size.

EDWIN LONSDALE, Wyndmoor,
STATION "G," PHILADELPHIA.
(Chestnut Hill P. O.)

E. G. HILL & CO.,

Wholesale Florists

RICHMOND, INDIANA.

Association "Flora"

BOSKOOP, HOLLAND

NURSERIES.

Roses, Clematis, Shrubs, Azaleas, Palms, Herbaceous Plants, Bulbs, Etc.

Catalogue on Application.

P. OUWERKERK,

206 Cambridge Ave., JERSEY CITY, N. J.

HEALTHY VIOLETS.

Field-grown, in fine condition and full of buds, $4. per hundred; $35.00 per thousand.

C. L. DOLE, 279 West Ave., Lockport, N. Y.

Four large Specimen Latanias at a bargain.

Miscellaneous Notes.

The following pointers were picked up at the establishment of Mr. W. N. Rudd, Mt. Greenwood, Ill.:

He has a house of Asparagus plumosus, and it is the most profitable crop he grows. He cuts five crops from the beds in one season and sells every bit that is cut and at a good price. He feeds it heavy and gives it a night temperature of from 65° to 70°.

Wootton is his most profitable rose. He runs it cool—a night temperature of 50°—and disbuds to get fine flowers.

Freesias didn't sell well a few years ago, but now there is a good demand for the flowers and he finds them a very profitable crop. But he cuts the whole bunch from each bulb. The flowers alone, without the foliage, won't sell.

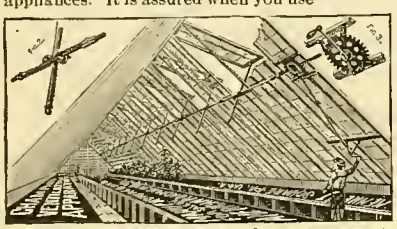
He burns no more tobacco for fumigating. Under the center bench in each house he has a tub near a valve with a connection that lets steam into it. He fills the tub with tobacco stems, turns on the steam and lets it run as long as seems necessary. He could never discover that the steam did the slightest damage to any vegetation in the house and the aphis tribe never gets a start. He wouldn't consider a proposition to return to smoke or to bundles of stems, etc.

He uses a Champion soil pulverizer and sifter, made by E. E. Wolf, Springfield, O., and advertised in the FLORIST, for preparing his potting soil and is loud in his praise of its efficiency and usefulness.

THE AMERICAN FLORIST and *Gardening* together to one address for $1.75. Send orders to the American Florist Co.

UNIFORM VENTILATION

Is something you cannot secure with all ventilating appliances. It is assured when you use



The Champion Ventilating Apparatus

SIMPLE, DURABLE, EFFICIENT, CHEAP.

☞Circulsr is yours for the asking. Address

AMERICAN ROAD MACHINE CO.,

. . . . Kennett Square, Pa.

STANDARD FLOWER POTS.

Price List.

2 -inch,	Per 1000	$3.25	7-inch,	Per 100	$ 3.50
2½-inch,	"	3.50	8-inch,	"	5.00
2½-inch,	"	4.00	9-inch,	"	7.50
3 -inch,	"	5.00	10-inch,	"	10.00
3½-inch,	"	7.25	11-inch,	"	15.00
4 -inch,	"	9.00	12-inch,	"	20.00
5 -inch,	"	13.80	14-inch,	"	40.00
6 -inch,	"	22.00	16-inch,	"	75.00

Terms cash, f. o. b. Address

HILFINGER BROS. POTTERY, Fort Edward, N. Y.

EVANS' IMPROVED

CHALLENGE VENTILATING APPARATUS

Write for Illustrated Catalogue.

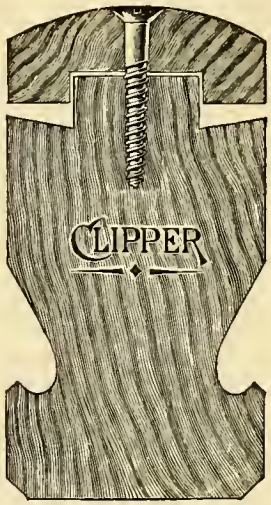
QUAKER CITY MACHINE WORKS, Richmond, Ind.

FLORISTS' HOSE,

Made by E. W. Holt, member of the Society of American Florists.

Goodyear Rubber Store,

2 W. 14TH ST. NEW YORK.



Mention American Florist.

THE "LOCKLAND" Sash Bars

ARE ALWAYS SATISFACTORY.

This cut represents our improved Clipper Bar for Butted Glass roof—putty to be used under glass only.

GUTTER MATERIAL, RIDGES, SASH, ETC.

The finest CLEAR CYPRESS used.

Write for circulars and estimates. . . .

LOCKLAND LUMBER CO.

. Lockland, O.

"Standard" Flower Pots.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Pottery Company,

BRANCH WAREHOUSES: 713, 715, 717 & 719 Wharton St., Philadelphia, Pa.
Randolph Ave. and Union St., Jersey City, N. J.
Jackson Ave. and Pearson St., Long Island City, L. I.

STANDARD FLOWER POTS

Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.

A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.

We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

Send for price list and samples and we know you will give us an order.

SYRACUSE POTTERY CO. OFFICE: 403 North Salina Street, SYRACUSE, N. Y.

STANDARD FLOWER POTS.

OLD RELIABLE MAKE OF

ELVERSON, SHERWOOD & BARKER.

Write for Catalogue and Price List.

PITTSBURGH CLAY MFG. CO. New Brighton, Pa.

STANDARD FLOWER POTS

Our new **Pottery,** new **Machinery,** the very **best Clay** in the **Country,** and our new **Patent Kilns,** all combined, make the **best Standard Pot in the market.** Send for price list.

PARMENTER MF'G COMPANY,

GEORGE MESSINGER, Manager. East Brookfield, Mass.

D. C. SCHOFIELD & CO.,

New Brighton, Pa.,

are in their new factory, manufacturing, this month, six times as many "STANDARD" FLOWER POTS as they made last season, in a month.

☞WRITE FOR PRICES.

TO TAKE PLACE OF WIND MILLS

HOT AIR PUMPING ENGINES

A Windmill

Is unreliable because it depends upon the elements for its power; hydraulic rams also depend upon favorable conditions and waste as much water as they secure. Steam pumps require skill and hand pumps demand labor and time. The

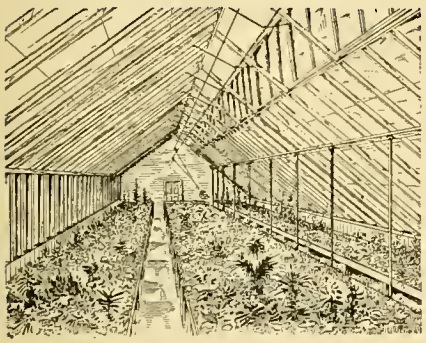
DE LAMATER-RIDER OR DE LAMATER-ERICSSON Hot-Air Pumping Engines

are especially designed for pumping water, and from shallow streams or any kind of well. They are simple, safe and reliable, require no steam and have no valves. They require very little heat to operate them, and can be arranged for any kind of fuel.

Send for illustrated catalogue to

THE DE LAMATER IRON WORKS,
87 South Fifth Av.,
NEW YORK, N. Y.

THE CHAMPION



Automatic Ventilator

The cheapest, easiest to operate, and by far the **best machine** in the market. Don't buy a Ventilator until you have seen my illustrated descriptive circular, which will be sent you free, giving prices, etc. Also **Champion Soil Pulverizer and Sifter.**

Address, **E. E. WOLF,**
Box 114. SPRINGFIELD, O.

CUTS!



Wood Engraving,
Zinc Etching,
Half-Tone,
Wax Engraving, Photo-Engraving,
Designing.

MANZ & CO.,
183 Monroe Street, CHICAGO. ENGRAVERS.

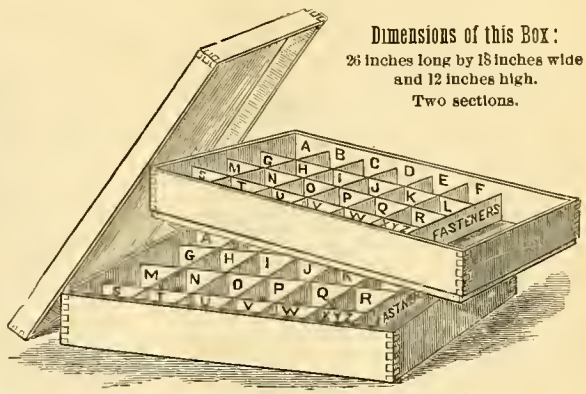
J. N. STRUCK & BRO.

Manufacturers of

• CYPRESS •
Greenhouse Material,

LOUISVILLE, KY.





With an order for 500 letters, we furnish a box made of wood nicely stained and varnished, such as is represented in the cut.

BOSTON FLORIST LETTER CO.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1½-in. and 2-in. 2.00 per 100. Patent fastener with each letter.

OUR NEW SCRIPT LETTER, $4.00 per 100.

N. F. McCARTHY, Treas. & Mangr. | Address 13 Green St., **Boston, Mass.**

Address all correspondence to 1 Music Hall Place.

We have a new **FASTENER** which we consider a decided success. Any customers having old style fasteners which they wish to exchange, can do so without additional cost by writing us.

AGENTS.

Marschuetz & Co., 25 N. 4th St., Phila., Pa.
A. Rolker & Sons, New York.
F. E. McAllister, 22 Dey St., New York.
A. D. Perry & Co., 33 Warren St., Syracuse, New York.
Ernst Kaufmann & Co., 113 N. 4th St., Phila.
H. Bayersdorfer & Co., Philadelphia, Pa.
A. C. Kendal, 115 Ontario St., Cleveland, O.
J. A. Simmers, Toronto, Ont. Agent for Canada.
E. H. Hunt, 79 Lake St., Chicago, Ill.
Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.
H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O
T. W. Wood & Sons, 6th and Marshall Sts. Richmond, Va.
Jas. Vick's Sons, Rochester, N. Y.
C. A. Kuehn, 1122 Pine St., St. Louis, Mo,
D. B. Long, Buffalo, New York.
C. F. Huntington & Co, Indianapolis, Ind.
Z. De Forest Ely & Co., 1024 Market St., Philadelphia, Pa.

These Letters are handled by all the Wholesalers in Boston.

WARNING.

A party in Williamsport, Pa., named Chas. E. Montgomery, is making and offering for sale letters which are an infringement upon our patent, and are much inferior to those manufactured by us. We have notified them of suits unless they desist at once. Buy no letters except through our authorized agents.

BOSTON FLORIST LETTER CO., 1 Music Hall Place, Boston, Mass.

We have secured the American Agency for

Fenster Pappe,

A new German substitute for covering cold frames, etc., in place of glass, is very strong and durable, and sufficiently translucent for all plant life, besides a good protection against light frosts. Not affected by the changes of the elements; does **not** shrink like parchment paper. Endorsed by German and Dutch growers and nurserymen. Comes in rolls, 36 inches wide and about 110 yards long.

Price per Original Roll, $9.00, F. O. B. Cars N. Y.

DIRECTIONS.—Stretch and nail on to the sash bars, then saturate thoroughly with linseed oil. Varnish when dry, and your unbreakable sash is ready.

First Shipment Just Arrived. We Solicit a Trial.

August Rölker & Sons, New York, P. O. Station E.

TRADE MARKS. COPYRIGHTS.

SOLICITOR OF U. S. AND FOREIGN PATENTS.
Atlantic Building, Washington, D. C.
(Send sketch or model for free examination as to patentability.)

THE PERFECT DRAINAGE

BENCH TILE

For circulars, etc., address

W. P. Wight, Upland Green Houses,
Send your business card. MADISON, N. J.

Send orders for . . .

CLEAR CYPRESS
Greenhouse Material

from bottom of gutter up.

Correspondence solicited. Estimates cheerfully furnished.

LYMAN FELHEIM, ERIE, PA.

CATALOGUE PRINTING. ELECTROTYPING.

Done with expert ability for Florists Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.,
HARRISBURG, PA.

MOSS.

CHEAP FOR WINTER. . . .

Fine Moss for Funeral Work and Orchids. 60c. and 75c. per pound.

A. K. Savacool,
EAST STROUDSBURG, PA.
Mention American Florist

DO YOU KNOW . .

THAT YOU CAN GET

20 CANE STAKES FOR 1 CENT

A foot in length by simply using a sharp saw on a bundle of our best.

BRACKENRIDGE & CO.,
304 W. Madison St., BALTIMORE, MD.
Mention American Florist.

Fire Insurance.

The question of fire insurance on greenhouses and stocks has often suggested itself to me. The plan of having a florists' fire insurance company after the plan of the Hail Insurance Co., has presented itself to me as a feasible one now that greenhouses are almost as numerous as barns. Of course the plan would need to be modified. Each section would have to be represented for the purpose of insuring property and also in making up fire losses. Such a position would require a man of ability and good sound judgment of human nature. As to rates, they might be graded, or if a place was extra hazardous, double rates might be demanded, but, better still, let such places alone. As an indication of what mutual insurance costs, I will state that I carry $2,000 insurance in two mutual companies. The assessments hitherto have amounted to about $10 annually. I had this insurance placed when I had about 8,000 square feet of glass. Since then I have enlarged the glass area to 18,000 square feet and erected other buildings. I have as yet made no application for additional insurance, as I can hardly see how a fire could destroy the place, as there is not enough of wood work in one place to cause much of a blaze; and, besides, none of the wood work ever gets heated. There is scarcely a single hot water pipe in contact with the frame part of the buildings. Properly built greenhouses are a good risk for insurance people, and as such is the case let us have at once a florists' fire insurance company on the assessment plan.

DR. J. S. HINNERSHOTS.

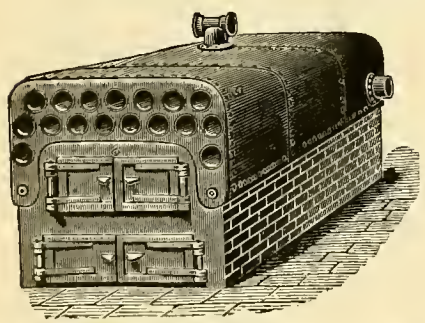
Reading, Pa.

ESTABLISHED 1854.

DEVINE'S BOILER WORKS.

THE FLAT TOP TYPE.

Wrought Iron Hot Water Boilers



Capacity from 350 to 10,000 feet of four-inch pipe.

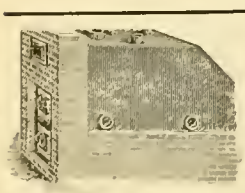
SEND FOR NEW LIST.

FRANK DAN BLISH, Att'y,

OFFICE, 189 STATE STREET.

WORKS, 56th & WALLACE STREETS,

CHICAGO.



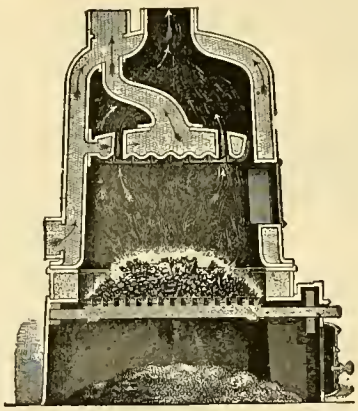
GREEN-HOUSE HEATING,

MYERS & CO.

1518 & 1520 S. 9th St., PHILADELPHIA.

Send for catalogue and price list.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.



JOHN A. SCOLLAY,

74 & 76 MYRTLE AVE.,

BROOKLYN, N. Y.

GREENHOUSE HEATING

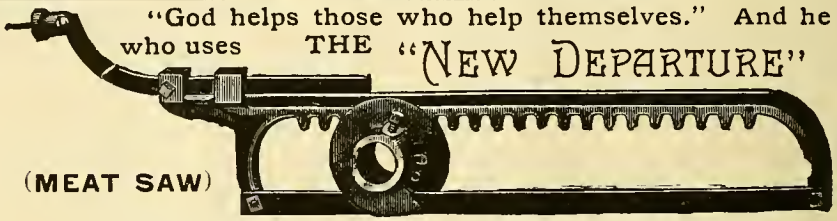
— AND —

Ventilating Apparatus.

Patentee and Manufacturer of

HOT WATER BOILERS,
GREENHOUSE PIPE,
PIPE FITTINGS,
VALVES, TANKS, ETC.

☞ Estimates of cost given, and Illustrated Catalogue furnished on application.



"God helps those who help themselves." And he who uses THE "NEW DEPARTURE" (MEAT SAW)

VENTILATING APPLIANCE

helps himself and those who help him in his labors, and is therefore doubly blessed. Send for price and description.

J. D. CARMODY, Evansville, Ind.

Or call and see the man and machine at his greenhouse office, located on the lawn west front of Horticultural Building, World's Fair grounds, Chicago, Ill.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO,

NATURAL GAS MADE GLASS

FOR GREENHOUSES.

Write for latest prices.

FRENCH GLASS For CONSERVATORIES, ROSE HOUSES, Etc. Etc.

VANHORNE, GRIFFEN & CO.,

Importers of PLATE and WINDOW GLASS. Manufacturers of BENT GLASS and FRENCH MIRRORS.

131-133-135-137 FRANKLIN STREET, NEW YORK.

Note—Imported Glass is used in the best grade of Greenhouse building.

GLASS

which is absolutely perfect for modern greenhouse construction.

ROCK BOTTOM PRICES.

Send for Estimate. Satisfaction Guaranteed

REED GLASS CO.

65 WARREN STREET and
46, 48, & 50 COLLEGE PLACE,

—NEW YORK CITY.—

THE GREAT ANTIPEST.

For particulars, see next week.

R. W. CARMAN, GEN'L AGT.,

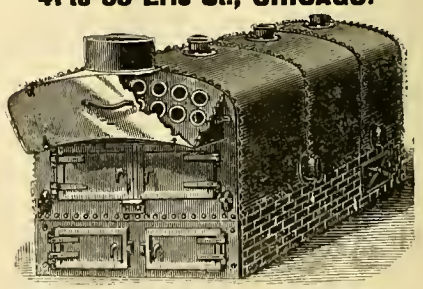
291 Amity Street, FLUSHING, Queens Co., N. Y.

KROESCHELL BROS.

IMPROVED

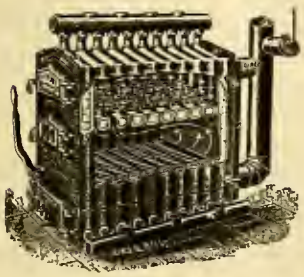
Greenhouse Boiler,

41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around front, sides and back). Write for information.

ROYAL HEATERS
TRADE MARK
UTICA, N.Y.



HOT WATER, STEAM.

The right kind of Boilers for Greenhouses.

HART & CROUSE,

UTICA, N. Y.

Increase Your Business

by fostering an interest in plants and flowers among the people in your vicinity. You can best do this by getting subscribers to

GARDENING . . .

which tells people how to get the most satisfaction out of their gardens, and stimulates them to enlarge and extend their gardening operations.

$1.00 A YEAR is the subscription price of this paper, which is issued twice a month, is handsomely and truthfully illustrated, is thoroughly practical, absolutely free from wind and gush and grinds no axes for anyone.

SPECIAL LOW RATE to florists who will act as agents. We want an agent in every city and town in America. Write for terms now to

THE GARDENING CO.
Monon Building, CHICAGO.

MAIL LOCK THE DOOR BEFORE THE HORSE IS STOLEN. DO IT NOW.
JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

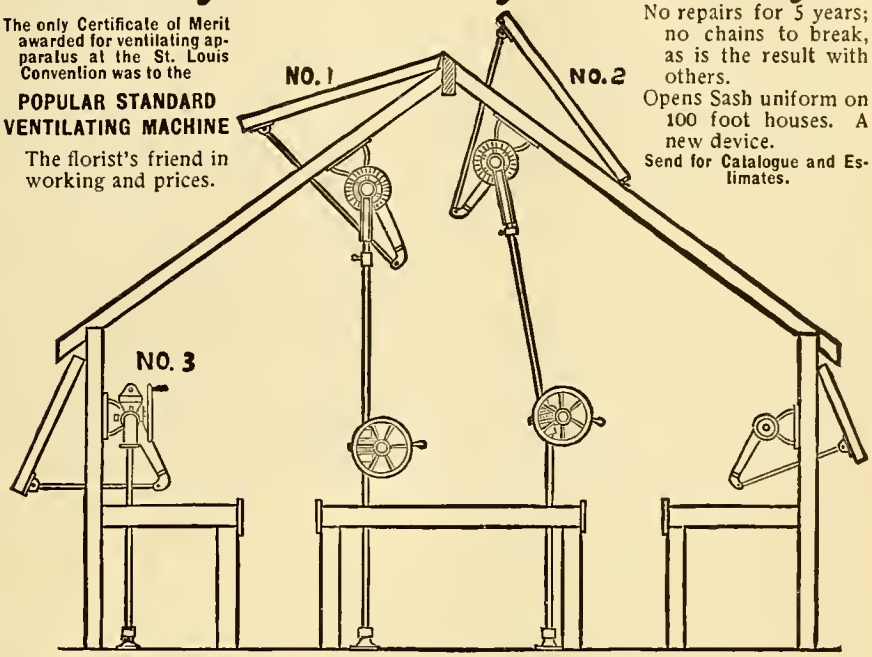
Mention the American Florist when writing to advertisers on this page.

Victory! Victory! Victory!

The only Certificate of Merit awarded for ventilating apparatus at the St. Louis Convention was to the

POPULAR STANDARD VENTILATING MACHINE

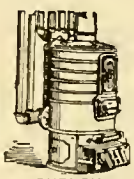
The florist's friend in working and prices.



No repairs for 5 years; no chains to break, as is the result with others.
Opens Sash uniform on 100 foot houses. A new device.
Send for Catalogue and Estimates.

E. HIPPARD, YOUNGSTOWN, OHIO.

Gurney

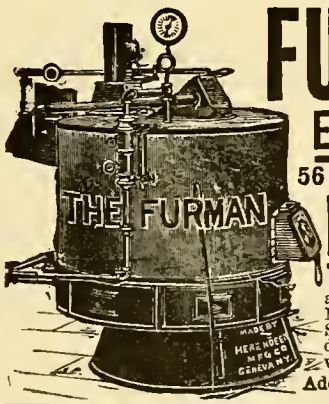

GURNEY.

The marked superiority of the Gurney Heaters which is manifested in all severe trials, is now a matter of history. There is no question about their being the best. For reasons, see our book "*How Best to Heat Our Homes.*" It is free.

HOT WATER HEATERS AND RADIATORS FOR HEATING Dwellings, Public Buildings, Etc. BY HOT WATER CIRCULATION.

Gurney Hot Water Heater Co.
HEAD OFFICE:
163 Franklin St., Boston, Mass.
BRANCH OFFICE:
59 Wabash Ave., Chicago, Ill.
SELLING AGENCIES:
Johnson & Co., 71 John St., New York.
J. C. F. Trachsel, 246 Arch St, Philadelphia.


DOUBLE CROWN.



FURMAN BOILERS

Economical — Substantial — Safe.

56 STYLES AND SIZES—BURNS HARD OR SOFT COAL.

Modern Hot-Water Heating

These Boilers have a high reputation for Staunchness, Durability and Safety, and are GREAT COAL SAVERS. Minimum Friction and Maximum Velocity only obtained by VERTICAL WATER CIRCULATION. Send for new 150-page book giving full particulars and a great deal of valuable information on modern Heating and Ventilation, with plans and tables for correct hot-water work. Mailed free.
Address HERENDEEN MFG. CO., 26 Vine Street, GENEVA, N. Y.

ESTABLISHED 1866.

FLORISTS WIRE DESIGNS

MANUFACTURED BY

N. STEFFENS

335 EAST 21ST ST. NEW YORK.

D. H. ROBERTS,
159 & 161 South Fifth Ave., New York.
NATURAL GAS MADE GLASS,
for Rose Houses, Conservatories, etc., etc.
Look at our World's Fair Exhibit in Horticultural Building.

FLORAL DESIGNS
The Cut Flower Worker's Friend. Fine book of 160 pages. Send $3.50 for it, to
J. HORACE McFARLAND, Harrisburg, Pa.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Index to Advertisers.

Adv. Rates, etc.....198
American Boiler Co....208
American Road Mach Co.....204
Andorra Nurseries.....203
Austin Will.....201
Baller F A.....201
Barnard W W & Co....200
Bayersdorfer H & Co..203
Berger H H & Co.....201
Boehmer L & Co 203
Bonsall Jos E & Son...199
Boston Letter Co 205
Boynton W D.....202
Brackenridge & Co.....205
Brauer & Richter.... 201
Brown & Canfield.....197
Bulst Robert Jr.....201
Burki Fred.....196
Burns & Raynor.....199
Burrow J G.....200
Burton John.....197
Calvert F & Son.....201
Carman R W.....206
Carmody J D.....206
Chandlee Geo H 205
Chicago Cut Flower Ex198
Corbrey T J.....198 199
Creighton Geo.....201
Deamud J B & Co..196 199
De Cock Jules.....202
De Lamater Iron Wks.205
Devine's Boiler Wks...206
De Witt P M.....198
Dillon J L.....197
Dole Chas L.....203
Dreer H A.....202
Elliott W H.....198
Ellison Wm.....199
Ely Z De Forest & Co..200
Engle W J.....201
Evenden Bros 197
Felheim Lyman.....205
Forstermann I. 202
Gardening Co The.....207
Gibson J C.....202
Gonzalez & Co.....200
Goodyear Rubber Store 204
Griffith N S.....197
Guillaume Louis A.... 196
Gurney Heater Co.....207
Hall Ass'n.....207
Hammond Benj.....202
Hancock Geo 196
Hart James.....199
Hart Michael A.....199
Hart & Crouse.....207
Hartford H E.....198
Hatcher John C 198
Heinl Geo A.....197
Heinl Jos.....197
Herendeen Mfg Co.....207
Herr Albert M.....201
Hews A H & Co.....204
Hilfinger Bros.....204
Hill E G & Co.....203
Hippard E.....207
Hitchings & Co.....208
Hooker H M Co.....206
Horan Edw C.....199
Hulsebosch Bros.....200
Hunt E H.....199
Hunt M A.....202
Hunter Frank D.....199
Huntington Seed Co...203
Jennings E B.....197
Joosten C H.....200
Kemble Floral Co 196
Kennicott Bros.....199
King Seed Co.....202
Kroeschell Bros 206
Kuehn C A.....199
La Roche & Stahl.....198
Lippincott Miss C H...202
Lockland Lumber Co...204
Long Dan'l B.....198
Lonsdale Edwin.....203
Lord & Burnham Co...208
Lovett J T Co 197
McCarthy N F & Co....199
McFarland J H.....207
McFarland J H Co.....205
Manz J & Co.....205
Marion Greenhouses...197
Marschuetz & Co.....203
Meyer John C & Co ...208
Michel Plant & Bulb Co 201
Millang Bros.....199
Moffatt G J.....200
Moninger Jno C.....208
Myers & Co.....206
Niles Centre Floral Co.199
Ouwerkerk P.....203
Parmenter Mfg Co.....204
Peck & Sutherland.....199
Pennock C J.....197
Pennock Sam'l S.....198
Pierson F R Co.....198 200
Pillsbury I L.....196
Pittsburg Clay Mfg Co.204
Pye & Mueller.....208
Quaker City Mach Co..204
Randall A L 199
Reasoner Bros.....197
Reck John 200
Reed Glass Co.....206
Roberts J H.....207
Roehrs Theo.....199
Rolker A & Sons200 202 205
Russell S J.....202
Sander & Co. 202
Saul John.....201
Savacool A K.....205
Sayles G N.....202
Schofield D C & Co.....204
Scollay John A. 206
Scott Alex.....201
Scull James H.....203
Shelmire W R.....196
Sheridan W F.....199
Sherwood Hall Nur Co.201
Siebrecht & Wadley....202
Situations wants.....196
Smith H Floral Co.....196
Smith Nathan & Son...196
Starr Chas T.....196
Steffens N.....207
Stewart W J Sec'y.....202
Stott Garden Imp Co...203
Struck J N & Bro.....205
Sunderbruch H L.....199
Swayne Edward.....197
Syracuse Pottery Co...204
Tracht J A & Son 197
Tricker Wm.....201
Van Horne Griffen & Co 206
Vaughan J C.....200
Vick & Hill.....197
Weathered's Sons T W.208
Welch Bros.....199
Whilldin Pot Co 204
Whitehead Geo B.....197
Wight W P.....205
Williamson J T.....197
Wisconsin Flower Ex..200
Witthold Geo.ge.....202
Witterstaetter R.....201
Wolf E E 205
Wood Bros.....197
Young John.....199
Zirngiebel D.....201

YOU CAN never invest $2 to better advantage than in a copy of our trade directory and reference book.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

CYPRESS GREEN HOUSE MATERIAL

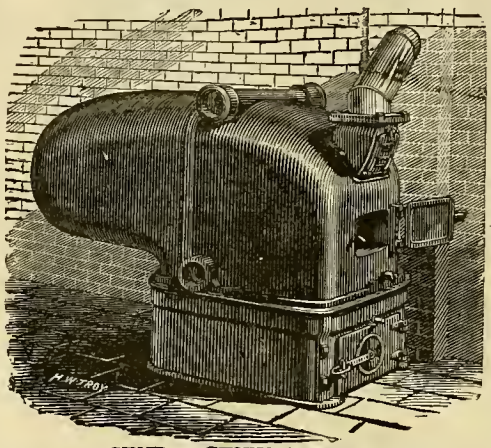


HOT BED AND VENTILATING SASH

JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

GREENHOUSE HEATING AND VENTILATING

Horticultural Architecture and Building.



HITCHINGS & CO.

Established 1844.

233 Mercer St., New York.

FIVE PATTERNS OF BOILERS.

NINTEEN SIZES.

Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc., of Iron Frame Construction, Erected complete, or the Structural Iron Work shipped ready for erection.

Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Top.

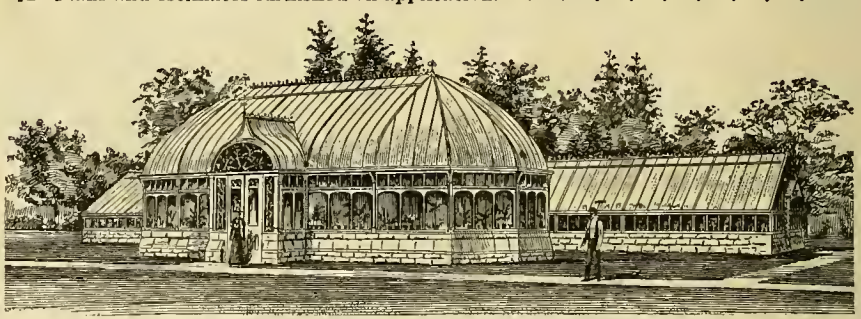
SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.

LORD & BURNHAM CO.

Horticultural Architects and Builders,

STEAM AND HOT WATER HEATING ENGINEERS.

☞ Plans and estimates furnished on application.



Front view of a portion of our exhibit at the World's Fair.

. . . SEND FOUR CENTS POSTAGE FOR ILLUSTRATED CATALOGUE. . . .

LORD & BURNHAM CO., Irvington-on-Hudson, N. Y.

STEAM · AND · HOT · WATER · HEATERS

FOR

GREENHOUSE HEATING

156

DIFFERENT SIZES.

American Boiler Company.

BOSTON,	NEW YORK,	CHICAGO,	DENVER,	SAN FRANCISCO.
195 Ft. Hill Square.	94 Center St.	34-36 Dearborn St.	Mining Exchange Bldg.	80 Crocker Bldg.

THOS. W. WEATHERED'S SONS,

INCORPORATED.

Horticultural Architects and Hot Water Engineers

Send for Catalogue, enclosing 4 cents in stamps.

No. 244 Canal St., NEW YORK CITY.

TOBACCO STEMS AND DUST.

STEMS—In 100 lb. bales, $1.00. In 500 lb. bales, $4.00. By the ton, $10.00.

TOBACCO DUST—A most valuable insecticide for Violets, Roses, Chrysanthemums, etc; also for fumigating; in 100 lb. lots, $2.00, f. o. b.

Pye & Mueller,

P. O. Box 1066. KINGSTON, N. Y.

SILKALINE

FOR TRAILING

SMILAX AND ASPARAGUS.

For sale by all leading Florists Supply Houses.

JOHN C. MEYER & CO.,

289 Devonshire St., BOSTON, MASS.

THE AMERICAN FLORIST

A WEEKLY JOURNAL FOR THE TRADE

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. IX **CHICAGO AND NEW YORK, OCTOBER 12, 1893.** **No. 280**

THE AMERICAN FLORIST

Copyright 1893, by American Florist Company. Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.
322 Dearborn Street, Chicago.

Subscription, $1.00 a year. To Europe, $2.00.

Address all communications to

AMERICAN FLORIST COMPANY,
P. O. Drawer 164, CHICAGO.
Eastern Office: 67 Bromfield St., Boston.

SOCIETY OF AMERICAN FLORISTS.

WM. R. SMITH, Washington, D. C., president; PROF. WM. TRELEASE, St. Louis, Mo., vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass, secretary; M. A. HUNT, Terre Haute, Ind., treasurer.

The new officers, to be installed Jan. 1, 1894, are: J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; secretary and treasurer the same as for 1893. The next annual meeting will be held at Atlantic City, N. J., August, 1894.

CONTENTS.

Carnations—Carnation notes 209
—Chester County Carnation Society 209
Chrysanthemums—Seasonable hints 210
The World's Fair 210
Miscellaneous seasonable hints 210
Greenhouse flowering plants 211
Vallota purpurea (with illus) 211
A visit to Astoria 211
Points for practical men 212
Judging at the Toronto show 212
New rose "American Perfection" 213
New southern roses 213
Greenhouse beuch (with illus) 213
Boston 213
New York 214
Chicago 214
Philadelphia 214
St. Louis 215
Buffalo 215
Baltimore 215
Washington 215
Toronto 216
News notes 216
Chrysanthemum shows 218
Catalogues received 218
The seed trade 220
Denver 222
San Francisco 222
Fire insurance 224
Express rates 226

THE PROJECT of a mammoth chrysanthemum show at the World's Fair early next month was considered by the Executive Committee of the Exposition last Friday and the vote was "No." Messrs. Craig and Smith then had a further conference with the Director General and other influential officials, as the result of which General Davis promised to have the matter reconsidered, but up to date nothing definite has been accomplished, and the chances of success seem rather slim.

BROOKLYN, N. Y.—Miss Marie Louise, daughter of Mr. James Dean, Bay Ridge, ex-president of the S. A. F., was married to Mr. Charles Willis Bouton, Tuesday evening, October 10, at the South Reformed Church.



Carnation Notes.

In giving my views on carnations and the cultural methods I employ I do not wish to be understood as considering either my views or methods of culture as infallible. Although engaged in the culture of a divine flower I am only mortal and a very humble student of nature and her relation to the carnation. Mr. Shelmire has given us many good hints the past year, some of which may be repeated in these papers; if so it is well to remember that a good thing bears repetition.

The first thing for this latitude is to get your plants all housed as quickly as possible. My idea is to have them all housed by this same date in September. It is well to remember that more care should be used in the watering and syringing now than is necessary for earlier plantings. The days are shorter, the nights cooler and moisture does not evaporate as quickly as a month ago. Some varieties are more susceptible to injury from over-watering or having the foliage wet after night than others. Take Daybreak for an example, give it a little too much water at the roots or syringe it too late in the day for it to dry off before night and you will have the prettiest crop of spot you ever saw. Take Lizzie McGowan as an opposite, it can be syringed at all times and never show any apparent bad effects. Between these two lie a large variety, some more easily injured than others, and to make assurance doubly sure it is best to err on the right side and have all your foliage dry by sundown.

It may seem folly to say be careful not to plant your plants too deep, but you will occasionally find a careless employe who will put the plants in deeper than they were outside. This seems to induce a fungoid growth very similar to the cutting bench fungus, and the plants will die off at the ground. If you find any set plants on your beds take the soil away carefully as far around as you can and replace with fresh soil for replanting; it is well to do this even if you do not intend to replant.

For shading I either use a clay wash or tack up on the inside a cheap muslin. In using muslin get as coarse and loose a muslin as you can buy, for a tightly woven one will be more injury than benefit. The clay wash is put on the outside with a syringe and a good sized house can be covered in a few minutes. Any good clayey subsoil will do to make it, and a few experiments will tell you what proportion to use. The wash will disappear with the first rain, and if it does not rain after the plants have taken hold, which is usually in about ten days, the hose can be turned on the roof and the shading washed off. The muslin can be taken down in about the same time, as the plants will want all the sun they can get after they have started growing.

Ventilation will be requiring some attention, as the ventilators can no longer be left open day and night without injury to the plants. In newly planted houses it is well to leave them open as the plants outdoors were used to cool nights, and will start better if the temperature is not changed too quickly on them. They are, however, very susceptible to wind blowing over them, and it is well to tack up muslin over the opening of the ventilators. I have found that the plants will do much better if this is done, and the ventilators left open day and night for about two weeks after planting, enough better to pay for the muslin in one season, and it is good for seven or eight seasons.

Remember that your plants do not have their full quota of roots yet and will not need any water until the soil actually begins to get dry. A good syringing about ten in the morning on all bright days will be beneficial and help to keep the spider away.

The greenfly will be making its appearance too if you do not begin operations at once to keep it out. There are numerous good preparations for their destruction, but I have found the best method is to begin about the first of October and smoke the houses with tobacco stems; if this is attended to regularly there will never be any fly in your houses. A. M. HERR.

Chester County Carnation Society.

The regular meeting was held October 7 at the society's room. A number of the members were absent, the fine weather being favorable to lifting plants and much of this work being yet undone. The plants still in the field were generally reported as having made very rapid growth during the past two or three weeks.

The subject of disposal of the gold medal offered at the Pittsburg meeting of the American Carnation Society was thoroughly discussed, the conditions under which the medal is to be offered being the point for determination. Some thought the restrictions should be the Broade as last year, viz.: "Best 6 blooms given ariety never offered for sale;" others you tht it should include those to be and Ast for sale in 1894, while still others Island the including of all carnations. evidently decision was deferred for one certainly

yne read letters from two grow-

ers of new varieties of violets said to be proof against "spot."

C. J. Pennock gave notice of the annual chrysanthemum show of the Penna. Horticultural Society, to be held in Phila., November 7 to 11, and the request of Secretary Farson that a good exhibition be made by growers from this locality.

The subject of a Phila. flower exchange was discussed and hopes expressed that it might develop into a reality of benefit to growers.

Regrets were expressed at the cessation of "Seasonable Hints on Carnations" by our secretary, that have appeared during the past year in the AM. FLORIST.

C. P. Barnard reported violets planted indoors in July looking well and clear of "spot," while those from same lot left out of doors were severely affected. Old plants left indoors all summer were trimmed in closely and the new growth is strong and healthy. All were treated with Bordeaux mixture.

Messrs. Cope showed samples of their rose pots, a little wider across the bottom than the usual make with deeper rim.

Jos. Phillips spoke of using space under north bench of houses for growing stock geraniums from which cuttings could be taken during the winter. He had been very successful in propagating geraniums in August by shading a few days with paper and then exposing to full sun.

Mr. Jackson reported many carnation plants dead after moving indoors, having used dilute solution of ammonia, potash and soda as a fertilizer. The same not having injured tomato plants, some members were inclined to think there were other causes of the trouble. C. J.



Seasonable Hints.

The Queen of Autumn is again donning her best attire, so in a few days several of the early ones will be on the market. The same varieties vary in earliness in different localities, which is likely owing to the climatic differences. I received flowers of October Beauty mailed from Salem, Oregon, September 28th, which were so fully developed as to indicate that they could be had there in a marketable condition by the 20th, which is at least twenty days in advance of those generally cut in the eastern and middle states.

Houses with sash roofs that can be removed at planting time and replaced after the buds have set are very desirable for these early varieties. This affords abundance of air at all times, which encourages early bud formation.

I have also noticed that where early and late struck plants are set together the early ones are from five to ten days in advance of the late ones. This is worth considering, as a few days difference in the date of marketing often makes the crop either profitable or unprofitable.

Of the varieties generally grown for extra early blooms the following, named in the order of their earliness, are the most forward in this locality: M. Vauvel, Mrs. F. Bergmann, Merry Monarch, October Beauty, Bolero, John H. Taylor, Chrysanthemum, Mrs. M. W. Redfield, Alba, Miss Kate Brown, Jessica and Harvest Queen.

John H. Taylor is the earliest large flowering variety I know of, being fully developed October 18, 1892, (and is equally early this season) seven and one half inches in diameter, with high built center, color white suffused with pink, much the same as seen in Mrs. Frank Thompson, and as it also resembles that variety in foliage I conclude it is one of its offspring, but as it not near as tall in growth it is very desirable when large early flowers are wanted.

Under the head of large flowering or exhibition varieties color is quite prominent with the following: The Cathedral, Mrs. Senator Hearst, Miss Minnie Wanamaker, Lillian Russell, Mrs. E. D. Adams and Viviaud-Morel.

Of the incurved type, M. R. Bahuant, Mrs. Oliver Laughton, Mrs. Robert Craig, Guernsey Nugget, Mrs. Geo. Rundle, Irma and Mabel Simpkins, are the first in color.

In my last article "Esmeralda" should read *Ermenilda*. The former was sent out prior to Ada Spaulding and could hardly be a seedling of that variety. I probably wrote the name carelessly, hence the blunder on the part of the printer.

ELMER D. SMITH.

Adrian, Mich., October 10.

The World's Fair.

The canna beds are now very much the worse for the stormy weather, which has succeeded several sharp frosts. Most of the outdoor gardening now has a very autumnal appearance, excepting the pretty little mixed borders around the Massachusetts state building, which are as gay with bloom now as in the early summer. Among the plants flowering here are Veronica baccata, Coreopsis lanceolata, Chinese larkspur, asters, pansies, heliotrope and sunflowers. All the plants are kept trimmed and in good condition by removing the old flowers before they have time to go to seed, and to this we must credit the long blooming period of many of them. Phlox subulata was blooming freely here, in spite of its being one of our earliest spring flowers.

In front of the Pennsylvania building that fine bed of crotons is still looking very well, as brilliant in color as ever, in spite of cold weather. The only damage is the loss of a few leaves by the high winds. In and around the New York building Siebrecht & Wadley's big palms and other decorative plants are well disposed with good effect. The classical mosaic alcoves, on either side of the portico, where water from an artificial spring bubbles out and falls down over a flight of marble steps into a basin below, are encircled with aspidistras, papyrus, aralias, etc. The use of bay trees, palms, and araucarias around the building, and the small bay trees in the vases on the parapet of the roof, seem much in keeping with the character of the building, which would not admit the simple flowers that do so happily with the Old Colony building of Massachusetts.

In the large horticultural building there is nothing new to report; there is naturally a lack of flowers just now, though the fancy caladiums are arranged to relieve the monotony of the green. In the small greenhouses the tuberous begonias from New York are now very fine, and the roses are showing plenty of bloom. Chrysanthemums are coming on nicely in the department greenhouses, but are not yet in bloom.

Over on the island the Japan anemones are really very good; both pink and white are blooming very freely, and are most attractive. But there is little else in flower there now but what is past its best. That double purple datura is blooming more freely than it did earlier, but the plants are very ragged. The trees show a great lack of brilliant autumn tints, and the pretty little Island is rather forlorn in appearance these fall days.

Miscellaneous Seasonable Hints.

The labor and care of the chrysanthemums is not over yet, although we are close to their flowering time. Late varieties must still be disbudded, and don't be afraid to do it. I hear florist friends say occasionally "Oh, my customers won't pay those big prices for chrysanthemums." It is a mistake; if they only buy a few they want those fine flowers if their trade is worth anything. Don't let your "mum" houses be cold and damp, and don't expose them to a cold draft any more than you would a rose. In wet, cold weather a little fire heat is a great help with a moderate amount of ventilation. You can master the black aphis now because your houses have all been glazed and you can fumigate; but don't smoke too heavy at first; I believe it is a fact, and I think I have heard it observed by other men that plants, like animals, can endure tobacco if gradually accustomed to it. You have all observed that heliotrope is injured very much if a strong dose of tobacco smoke is given it, but I have proved that if you begin with a light dose and increase gradually heliotrope and many other plants will stand all the fumigation you can give them; and chrysanthemums are not injured in the least by tobacco smoke, either leaf or flower, unless overdone at first.

Don't forget to keep your ventilators well up in the carnation house. It is of the greatest importance that they have an abundance of ventilation day and night. With this treatment you may not get such a big yield of flowers for a month or so, but you will be repaid before the season is over tenfold. Even if the temperature goes down to the freezing point outside an inch or two of air is of great benefit just now. If you have a demand for carnation plants in the spring and have no plants to spare to lift from the field and winter in a cold frame, then put in a few hundred cuttings at once. They root well now, and if grown along during the winter, with one or two stoppings, can be grown into fine little plants in a 3 or 4-inch pot and will be quite satisfactory for summer. They will not flower as profusely at the start as the old plants, but before the season is over will be quite equal to them. These plants are not only good for the retail sales, but every florist who does a retail business should have a few hundred or thousand of this style of plant; he can then pick carnations during August and September when his plants in the houses are about used up, and the houses are being prepared for future stock. You can well afford to let these plants freeze up, for they have paid you well.

Don't let your gladiolus bulbs freeze up. Dig them up some fine day, cut off the stem three or four inches from the bulb, and after the bulbs are dry store away in the coolest place you have above freezing.

Before you get all your tulips and narcissus planted don't fail to have some of them in pans. Pans are much better than pots and sell much better; 6, 7 and 8-inch



VALLOTA PURPUREA WITH 34 FLOWER SPIKES.

are the best sizes. An 8-inch pan 3 inches deep will hold one dozen Yellow Prince tulips and will sell well. Treat them just as you do the boxes of bulbs, but protect from frost a little more, as severe freezing may crack the pans. Chrysolora and Yellow Prince, La Reine and Vermilion Brilliant are all good for the purpose, and so is Von Sion narcissus. WM. SCOTT.

Buffalo, October 9.

Some Little Grown Greenhouse Flowering Plants.

Chorozema; this is a pretty New Holland plant, and can easily be grown into a handsome specimen, as it stands pruning well. It does best in a cool house, and should not suffer for water, or it is apt to get spidery; it roots readily from cuttings. C. cordatum is a free growing kind with pea shaped flowers of orange and red. C. varium var. Chandleri is a fine dwarf growing variety with long branching shoots, and racemes of orange and red flowers.

Habrothamnus elegans is an old and useful conservatory plant, and will grow anywhere; it can be trained to a wall or pillar and is highly ornamental, flowering in dense racemes of reddish purple flowers, which are produced very freely.

Kalosanthes coccinea. This is one of the brightest colored flowering plants we have. It will grow under almost any conditions and should be pinched back during summer to encourage lateral growths, and should be kept rather dry during the winter. Its flowers are produced in umbels on the end of every shoot and are vivid scarlet in color. It is worthy of more extended cultivation. It is easily increased by cuttings.

Luculia gratissima. This fine hard wood plant does well in a camellia house, and it is one of the most deliciously fragrant flowers grown. While it will if planted out make a large bush it can be kept to almost any size by careful pruning. It also makes a good pot plant. The flowers are produced in terminal cymes, and are a beautiful pink and rather fleshy. It is propagated by cuttings of young wood about half ripened.

Rogiera gratissima. This is one of the finest cool house flowering plants in cultivation. In growth it somewhat resembles a laurestine. The flowers, produced in large terminal corymbs, are of a delicate pink color and are very fragrant. It flowers almost all the time, as the flowers are produced shortly after the growths are completed. It is a very free bloomer, and when young must have the trusses of flowers pinched out to encourage growth. It does well in a mixture of peat and loam with some sand added to it. It is propagated from cuttings placed in a frame with a little bottom heat.

The aphelandras are very bright and showy plants, and are useful for conservatory decoration in winter, but seem to be going out of cultivation now except on a few private places. They are easily propagated from cuttings of the half ripened wood. They should be grown in a warm house and should be pinched back to make good shaped plants. After flowering they must be kept cool and quite dry until starting into growth, when they should be pruned back to about three eyes of the old wood. A. aurantiaca is a good winter flowering species. The flowers are produced in erect terminal spikes and are of a deep orange scarlet color. A. nitens flowers in the early summer, the flower spikes are four-angled, flowers very large and bright scarlet color. One of the finest species in cultivation. A. Roezli is considered the best and freest flowering one of the species, and being a winter flowering one is much more valuable. The flower spikes are large and bright orange scarlet.

Æchmea Mariæ Reginæ. This is the handsomest bromeliad ever introduced. It is strong in habit, having large leaves twelve to eighteen inches in length, armed at the edges with sharp spines. The flower scape is erect and covered about half its length with large boat shaped bracts of a rich magenta shaded with rose, which remain a long time in perfection; the upper portion is thickly covered with flowers, which are tipped dark blue, changing with age to rose. It blooms during June and July. It is one of the most gorgeous and striking plants in cultivation, and never fails to attract attention.

Tillandsia Lindenii is a very handsome species of strong upright growth, leaves slightly recurved and fine pointed, upper surface light green and rose below streaked with brown. It bears a fine broad distichous scape, which is rose color, and the flowers are large, bright blue, with a white eye. This is the best of all the tillandsias.

Burchellia capensis, an old fashioned greenhouse plant, is a free flowerer and is very handsome; it makes a good shaped bush and is remarkable for the hardness of its wood. The flowers are in heads and are of a deep scarlet color, remaining in beauty for a long time.

Dalechampia Roezliana rosea is a fine shrub of branching habit. Like the bougainvillea its beauty is not in the flowers, but in the bracts, which are much larger than those of the bougainvillea and a great deal brighter in color, being of a rich carmine. It is also very free blooming. In habit it is erect and well branched. The flowers are freely produced from the axils of the leaves, the bright rose colored bracts situated at opposite pairs being heart shaped, very large and fragrant. To do it well it must be kept shaded from the sun. It is when well grown a beautiful thing, but is seldom seen now.

Madison, N. J. JAS. S. TAPLIN.

Vallota Purpurea.

Often called the "Scarborough Lily." It is a native of the Cape of Good Hope and requires a long season of rest during the winter months. Its brilliant color and handsome form make it a universal favorite.

This plant is seldom seen in perfection with the gardener or florist or in any establishment where it is wintered in a greenhouse. But around the doors or piazzas, in the homes of the rich and poor alike, it is to be seen now (September) in all its glory. After blooming it is taken to the cellar, sheltered and rested until the coming spring. The vallota does not like to be disturbed much at the root. Once in three years is often enough, say about the first or second week in June.

D. A.

A Visit to Astoria.

"Take Dutch Kills cars and get off at Broadway." These are the directions given by W. H. Siebrecht when inviting you to come and see him. Dutch Kills and Astoria are both a part of Long Island City. Long Island City people evidently do not believe in pavements; certainly the dusty thoroughfares trav-

ersed by the bobtail contrivance called the Dutch Kills car are entirely innocent of such things; sidewalks are scarce, and the space between the car tracks has been dug out to the depth of a foot or more in places by the action of the horses' hoofs. Ask a Long Islander what is the cause of all this, and his invariable answer is "Pat Gleason."

The soil is apparently very fertile, for when one gets a momentary glimpse through the thick clouds of dust he sees on the right and left market gardens and farms all in fine shape and with abundant crops. As you get to the neighborhood of Broadway the surroundings improve considerably, and when you finally come in sight of a fine range of modern greenhouses surrounded by gardens brilliant with flowers and fields planted with carnations, lilacs and gladioluses—this is Willie Siebrecht's.

Once inside the houses we find that chrysanthemums are perfectly at home in Astoria soil. Gloriosum, Mrs. J. G. Whilldin, Domination, Miss Minnie Wanamaker and other popular varieties are in fine form. The two former Mr. Siebrecht calls his earliest yellows, the two latter his best early whites. Rohallion is not an early variety with him and Golden Wedding he finds rather delicate and subject to mildew. He can do nothing with Mrs. Hardy, and President Hyde, which until last year was a standard variety with him, now runs very weak and will have to be discarded. He speaks very highly of Stonewall Jackson (sometimes called Crystal Wave) as a favorite late white.

Bulbs in variety and lilacs take possession of these houses after the chrysanthemums are done. Lily of the valley for the New York market is grown here the whole year round. Mr. Siebrecht says that cold storage valley is a very uncertain crop and its cultivation is attended with great risk and much loss. However, it takes but little room, and that is one consolation. His tulip bulbs after forcing, if fine varieties and especially those flowered after March 15, are not thrown away, but are planted outside for a year, after which time they are in condition to be forced again. These bulbs outside are not permitted to flower unless there is a good demand for the blooms, but the buds are picked off as soon as they show color. Allowing them to perfect their blooms outside or cutting off stem and foliage destroys the value of the bulbs for future forcing.

Carnations are and always have been favorite productions with the Astoria growers. Mr. Siebrecht has replaced six old houses the past season with fine modern structures, and four of these are to be devoted to carnations. He does not believe, as some growers appear to, that any old house is good enough for carnations, but that carnations deserve and will make proportionately as good returns if given good houses as roses will. Referring to the size of plants he asserts that some varieties, notably Tidal Wave, seem to do much better when small plants are used, and that large clumps are very apt to rot off and die.

A novelty recently imported by Mr. Siebrecht is Asparagus Springeri. This is a trailing plant, the sprays being from three to four feet long. The foliage is light green in color, hence is very different in form and general appearance from any of the species commonly known. The flowers are white, with orange tipped stamens. The fruit is in clusters, bright scarlet and very ornamental. It looks as though it would make a very fine basket plant and the drooping sprays would be valuable in cut flower decorations. Mr. Siebrecht says that it is a strong grower and transplants well, and that plants from cuttings planted in the open ground in spring make fine clumps for potting in fall.

Not far from Mr. Siebrecht's, Mr. David Dean is located. Carnations are the main crop here; Tidal Wave, McGowan, Daybreak and Wilder all look as though in congenial surroundings, and there are 20,000 of them on the place. Mr. Dean says that Lamborn was his favorite white for years, but that it will not grow with him any longer and appears to have lost its constitution.

Points for Practical Men.

Everyone in business likes the company of practical men. One can not visit their establishments without picking up something new, as the successful man is never satisfied with the measure of his success, and is always alive to the possibilities of the future. Here are a few ideas that were rubbed off in a short personal encounter with Mr. John Burton, of Chestnut Hill, who belongs to the first division of the army practical.

In speaking of hot water under pressure Mr. Burton said that he had a small house 20x80 heated by this method some time ago, with excellent results. He had taken it out, however, on erecting a new range of houses, and connected the house to the steam boiler put in to heat the new plant. The boiler used to heat the water was made on the place out of thirty-five feet of 2-inch pipe in lengths about five feet long connected by return bends and arranged so that the pipes formed a long narrow coil, the water flowing continuously as through one pipe. The fire grate was 20x16 and the boiler was built in with fire brick, the top of the boiler was covered with a piece of iron laid on loose, the bricks were carried up a few courses and the space filled in with sand. It was always easy to get at the boiler to clean it, yet there was no gas. Connected with the boiler at the top was a 4-inch pipe seven feet high, with a safety valve on top and pipe leading out of the house; the height of water in this pipe gave the necessary pressure; 605 feet of 2-inch pipe connected with this boiler was sufficient to heat the house in the coldest weather, and Mr. Burton said he considered it heated the house perfectly and was very economical both in the matter of attendance and fuel. There was a short flue of about thirty feet. At the lowest point there was a small valve to draw off the water.

Several houses are planted with carnations that have been growing on the benches all summer; they have made a good growth and look well. Said Mr. Burton: "We expect to get a heavy crop from these plants before February, as we will take them out to make room for young roses about that time."

"What roses are you forcing this season?"

"Well, I am strong on Meteor; it paid me next to the Beauty last season, and much better than any of the other teas. My man said it was the best selling rose he carried. It requires about 5° more of heat than the others, and does best with a house to itself. It does well up to July. I have a lot of Beauties and Belles, and expect to have some fine flowers of the Belle this season. Last year I had to cut the stock up so for cuttings that it did not have a chance to show what could be done with it. I grow also Brides, Mermets, Cusins, Wattevilles, Hostes.

"In hybrids I confine myself to three varieties, Laings, Brunners and Rothschilds. Forcing early hybrids is a lottery; with apparently the same treatment a success of one season will often prove a complete failure the next."

"You have been very successful with Asparagus plumosus; does it not pay better than smilax?"

"Yes, I think it is a better crop; it has taken the place of smilax for many purposes. I have no trouble to sell all the strings I can cut, as well as the branches or fern-like leaves that come up from the bottom, which are much used."

"What do you do with the hops; are they good for manure?"

"No, I use them to lighten up my palm soil a little."

"Is there as much demand for large palms as ever?"

"Yes, I can't get them large enough fast enough, I have a few here that measure twelve feet high and about eight feet in diameter through the bushy part of the plant; they have been sold for $60 each and will be sent away before long." These were certainly extra choice plants, and outside of this home of fine arecas we question if they could be duplicated.

"Do the insects ever get ahead of you?"

"Once in a while we find a plant where they are pretty bad, then we apply whale oil soap with a little friction, and it generally fixes them. Fresh tobacco water syringed with some force is a good preventive.

"The areca and kentia are my best palms. The kentias are coming into favor, for although they are the most expensive, yet they are so useful in decorations and as house plants that they are worth the difference. It is not generally known that while kentias will stand a lot of knocking about and neglect without apparently showing the effects of it, they are very susceptible to the slightest frost, and are not as hardy in this respect as are arecas.

"Rhapis flabelliformis I find to be in demand, and I think it a better variety than humilis, which is thought well of by some."

"You have a nice lot of orchids."

"Yes, I hang them up to the rafters in all my palm houses, where they take care of themselves. They bear quite a lot of flowers during the season."

"What are you doing to your boilers?"

"Taking this pair out; they are cast iron sectional boilers, for which I am substituting a regular return flue tubular. I believe it is the best. It is the kind of boiler that nearly all manufacturers use, and they have tried almost every conceivable kind of boiler for making steam; have spent thousands of dollars where the florists have spent one, and have come back to this type of boiler. It is now adopted as the standard for large manufacturing plants everywhere."

K.

Judging at the Toronto Show.

ED. AM. FLORIST:—With your permission I would like to answer E.'s criticism on the judging of the Toronto show for the credit of my colleagues, my own shell being too hard for any such darts to pierce.

First I must thank E. for his sympathy, but must at the same time assure him it is entirely unnecessary. E. seems to forget that there was such a thing as a schedule, by which, in a measure, every judge is bound. How often is the question asked in cases of close competition,

"how does the schedule read?" or what is the wording of it, the present being a case for just such a question. We had three distinct types of tables to judge, viz., what E. styles the old stereotyped pyramid, not so compact or clipped as of yore, next one of the most artistic pieces of nature I think I ever saw, and thirdly a hybrid between the two, and I should say evidently a first cross, with the usual result of a first attempt at improving nature. Every father thinks his own child the best, and I think rightly so, and as E. stood somewhat in the relation of parent to the hybrid I am not at all surprised that he should think it should have been placed at least.

The schedule called for the best display of plants on table, and as such they were judged. And here let me say that each man went through the exhibits entirely alone, and when notes were compared we were a unit in our awards. Now, as regards my asking for assistance, I did not even know there was any intention on the part of the directors to give me assistance until so informed by the secretary, and when I saw the exhibits I must certainly say I was glad instead of sorry, although I want to tell E. that my opinion of the one judge system has not altered since I first advocated it some years since. If anything the present case has somewhat strengthened it.

Now with regard to Friend Houston, critic number two, I think he hardly realizes the very severe criticism of his own work his article implies, for a more deliberate murder of certainly the choicest and best grown plants in the hall could hardly be performed, many of the choicest gems being literally buried, while as for arrangement there was none.

I think perhaps good will come out of this tangle, as I think from conversation with some of the directors they will upon representation make at least two alterations, one in the wording of the schedule, and also two classes, one open and one for the trade, which I venture to say will be acceptable to the exhibitors in general.

F. G. FOSTER.

New Rose "American Perfection."

We have received flowers of this rose from Messrs. Nanz & Neuner, Louisville, Ky., with whom it originated. They inform us it is a sport from Mme. Pierre Guillot, but it is strikingly dissimilar. The flowers are large, rather round, borne on very stiff stout stems, foliage like a Mermet. The color is much like a Mermet, but the inside of the outer petals appears streaked and stained with light carmine. Something in the texture of the flowers suggests Mme. Labarthe. The flowers have a good tea fragrance. Messrs. Nanz & Neuner write us that the chief point they admire in this rose is its great vigor and strength of bloom, and also its lasting qualities; it stands uncut for so long after being fully expanded without decay. It also proved very satisfactory during dull winter weather. It is certainly very attractive in appearance.

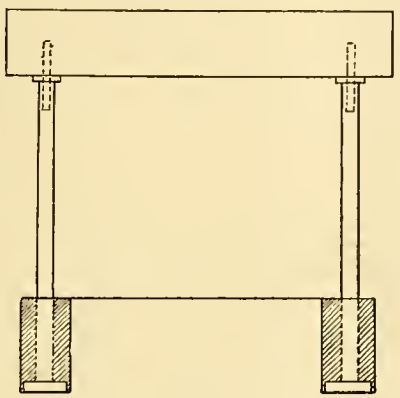
New Southern Roses.

A climbing Malmaison has originated as a sport with Mr. R. N. Little of New Orleans, who is an enthusiastic rose grower. The climbing character seems very persistent, while the bloom is a perfect reproduction of the type. Mr. Little has also produced a fine climbing Noisette, which he has named Prof. T. G. Richardson. A number of seedling teas of Mr Little's are now under trial, and will be sent out at an early date. Among them is Winnie Davis, a seedling from Mme. de Watteville, which has received a great deal of praise. It is thought that this variety will be excellent for forcing.

New Orleans. H. P.

Greenhouse Bench.

The accompanying sketch shows a section of a cheap and durable bench used by Mr. W. N. Rudd, of Mount Greenwood, Ill. The parts consist of uprights of ¾-inch pipe, a 1¼-inch iron washer with a ½-inch hole in center, a 6-inch piece of ⅜-inch pipe, and cross-pieces of 2-inch plank 6 inches wide. The cross-pieces have ½-inch holes, 3 inches deep, bored in the lower edge near the ends.



In putting up the bench holes 14 inches deep are dug with a post-hole auger and a hard-burned brick placed in the bottom of each. Then beginning at one end the two holes are filled with cement, the uprights placed in position resting on the brick, the washer placed on top of the end of the pipe, the piece of ⅜-inch pipe driven into the wooden cross-piece and the latter set on to the uprights. This being secured to the side of the house to keep it in position until the cement sets. Then the next pair of holes is filled in the same way and the cross-piece that covers it attached to the preceding one by a couple of laths tacked on criss-cross to brace it steady, and so on down the house.

Mr. Rudd puts the cross-pieces on 3 feet apart and believes this is much the most economical in the end, as the boards in the bottom of the bench last much longer when the supports are close together, and in these benches 6-foot stuff can be used for bottoms and it is much cheaper than longer boards. All the wood being treated with crude oil he finds that a bench of this construction lasts as long as he needs it and the cost is comparatively slight.

Boston.

The annual fruit and vegetable show of the Massachusetts Horticultural Society took place on October 4 and 5. Both halls were well filled with the display, which was exceedingly good throughout, and attracted more than the usual number of visitors. An interesting and novel feature was a device for evaporating fruit, exhibited by the American Manufacturing Co. of Waynesboro, Pa.

Hothouse grapes were excellent. Geo. A. Nickerson showed ten varieties, of which Buckland's Sweetwater, Annick Seedling and Gros Moroc were among the best. Mrs. J. W. Clark's Black Hamburg and Alicante were also very fine, the largest bunch of the latter weighing eight pounds, four ounces.

There were but few flowers in the hall, except the beautiful stage decoration of flowers and foliage arranged by James Comley, some good phloxes and pansies from L. W. Goodell and J. Warren Clark's collection of superb gladioluses, which was awarded a well deserved silver medal.

The customary lunch was provided for the committees and a few invited guests at the Tremont House. The fruit men were seemingly in a very happy frame of mind, which could not be on account of the abundance of the grape and Bartlett pear crop, for both grapes and pears have been so cheap as to be scarcely worth marketing; neither could it be the high price of Baldwin apples, for the price is no comfort when one has none to sell. It must have been simply because it is the normal condition of any man whose life is devoted to the pursuit of any kind of horticulture to be happy regardless of circumstances or surroundings.

Prof. Maynard brought a large delegation of students from the Amherst Agricultural College to see the exhibition. Mr. E. H. Krelage of Haarlem, Holland, was a welcome visitor.

The meeting of the Gardeners' and Florists' Club on Tuesday, October 3, was, like all the meetings of the past summer, very poorly attended. This fact furnished a topic for discussion and insured a very interesting session. Various reasons for the disinclination on the part of members to attend the meetings were advanced by the various speakers. Mr. P. Welch summed up the matter in this wise: "They do not like to get away from their premises on these hot nights." This effort on the part of Mr. Welch met with the customary success in bringing down the house, and the two members who had been asleep opened their eyes, blinked and looked around to find out what it was all about. The subject of the annual supper came up and it was voted that it should take place about the time of the chrysanthemum exhibition instead of midwinter, as heretofore, it being likely that more visitors would be in town at that time whose presence would add much to the occasion.

The cutflower prices remain about as quoted one week ago, but it cannot be said that there is any great activity as yet. Roses have shortened up somewhat in quantity, so there is no overstock. Carnations continue high in price and good blooms of standard varieties bring on the average $2 per hundred, and select Daybreaks and Buttercups and such special kinds have been selling for the past week as high as $4 per hundred for extra blooms. There are still a few asters, but there is little demand for them, as the quality is poor. Violets are to be had at from 50 cents to $1 per hundred for Marie Louise. A quantity of single violets are being sent here from Philadelphia, but these have never been popular with the Boston trade and the sale is very limited even at the low price at which they are offered.

There are very few chrysanthemums seen in this market as yet; Wm. Edgar and Thomas Cox are both cutting Mlle. Lacroix, which is the earliest white in this section. Wm. Edgar has one house filled with this variety which is already a sheet of white. The next white which he will cut will be Ivory, and Pres. Hyde, his earliest yellow, is just at the same stage. Mr. Edgar has a seedling which he describes as a yellow Ivory, which was very satisfactory last year. It has not been named yet and it is understood that a certain Boston retail florist is to have the privilege of christening it, on

which occasion he is expected to follow the illustrious example set by one or two gentlemen under like circumstances last year. Another "pansy punch" is among the possibilities.

The city of Boston has finally secured two lots of land at East Chester Park of about two acres each, which will be used for greenhouses and storage purposes for the park department. One of the lots is well adapted for the location of a fine range of modern greenhouses.

N. F. McCarthy & Co. sold at auction on Saturday, October 7, a fine lot of plants for Pitcher & Mauda and several local growers. The prices of novelties and fancy stock were low, but good commercial stock, such as palms of moderate size, pandanuses, rubbers and such standard sorts, brought prices fully up to wholesale rates. There is plenty of room in this market for a good quantity of salable stock in this class of plants.

The annual election of officers and standing committees for the Massachusetts Horticultural Society occurred on October 7. The regular ticket was elected without any opposition and the officers are practically the same as they were last year.

Houghton & Clark, formerly employes of Norton Bros., have opened a store at 443 Boylston street.

Strangers in town this week: E. H. Krelage, Holland; A. T. Bodington, Short Hills; and J. A. Penman of New York.

New York.

The monthly meeting of the Florists' Club on Monday, October 9, was well attended, about sixty members being present.

The principal subject discussed was the coming chrysanthemum show. Mr. Bergmann reported for the show committee that applications for space are coming in rapidly. Manager McCrowe told of a proposed illustrated catalogue to be issued and showed samples of lithographs which it is proposed to circulate. Arrangements for the appointment of judges and other officials were perfected.

Mr. James Dean made a statement regarding medals won by New York state in the horticultural department of the World's Fair, and said it was probable that the club would be able to obtain some of these medals in recognition of the service it had rendered the state exhibit in this department. He proposed that the club should send a quantity of flowers for use on Manhattan day at the Fair, which occurs October 21. This was agreed to amid much applause, and a large number of members volunteered to contribute. All desiring to send flowers for the occasion can ascertain time of train leaving and all particulars by addressing Secretary Young.

Two new members were admitted.

Mr. C. W. Ward showed some fine blooms of Dorner's seedling carnations.

I. Forsterman, of Newtown, L. I., is the first grower in the maket with chrysanthemums in any quantity. His earliest yellow is a seedling of his own, named Yellow Queen. Close following upon its heels is Kate Brown, also yellow. October Beauty and Mrs. J. G. Whilldin, of course, are two of the very earliest, and Girard and Wanamaker are not far behind.

There are few places in the neighborhood of New York looking any more thrifty than Forsterman's. Many of the houses are made to do double duty. The benches are filled with palms, ferns, selaginellas and other plants which like a little shade, and overhead cattleyas, vandas and dendrobes are suspended by thousands. Cattleya labiata and C. Gaskelliana are in bloom now. The latter is a special favorite with Mr. Forsterman, as it can be easily brought into bloom at almost any time it is required. Every foot of room in all the houses is utilized for carnations, genistas, azaleas, araucarias, etc., and the frames outside are filled with pansies, lilies, tulips and promiscuous bulb stock. If any grower wishes to learn a profitable lesson in the utilization of space to advantage he should pay Mr. Forsterman a visit.

Louis Dupuy, Whitestone, brings to the market a magnificent white bouvardia, which ought to be grown extensively here, B. Humboldtii. In Paris Mr. Dupuy says it is the only bouvardia considered worth growing. The blooms are as large as those of a jessamine and are very fragrant. It blooms from September until December. Easily propagated from soft wood cuttings.

The daily papers have been complaining of parties who have been swindling the public, in the vicinity of Fulton street, by offering for sale highly perfumed bunches of grass, which they called "California coral," and which they "warranted" to grow in water and get sweeter as they grow older, but which proved to be a common sea weed scented up for the occasion.

The *Mail and Express* says that "the shops of the florists, in the expensiveness of their fixtures and the gorgeousness of their attractions, are beginning to rival some of our most famous bar rooms." The writer is still at large.

Ernst Asmus is trying the experiment of holding over a few benches of Meteor for a second year. They appear to be doing well with the exception of one house which suffered from being dried off too severely.

Paul Dailledouze says that there is more money in Silver Spray than in any other carnation grown.

Chris Butler is satisfied with his move from Summit to Bayside, and says he has struck just the right soil for roses. He has built another 150 foot house this year.

Thos. H. Spaulding is going to build a handsome palm house 56x36. Thos. W. Weathered's Sons have the contract.

"Bennie" Ezekiel has opened a flower store at 933 Broadway.

Geo. H. Linsdale, of 23rd street, is celebrating the birth of a daughter.

J. H. Troy, of Short Hills, sailed for England on October 7.

H. A. Daacke, the seedsman and bulb dealer, died October 4, of inflammation of the lungs. Mr. Daacke was born in Germany in 1852 and came to America in 1869. He was for many years with F. E. McAllister, starting in business for himself in 1891. He leaves a widow and three children. The funeral was held October 8 from his residence in Hoboken.

Chicago.

Business is improving, but the quality of the flowers in most lines leaves much to be desired. Roses and carnations do not seem to improve very rapidly. Perles are fair, and there are some good Beauties for the season. Brides and Mermets frequently show traces of mildew. Carnations are rather better, but a good many poor flowers are sent in. Double violets have made their appearance and bring $2; the demand for them is very good. The only chrysanthemums in are inferior whites grown in sprays, without any disbudding; they are very poor, and a detriment to the reputation of the flower, one would imagine. Cosmos is in though not in great quantities; it is not extra good, having suffered severely from dry weather. Tuberoses are much better than they were, both in size and color. Dahlias are rarely seen, and the amount of outdoor material is very scanty. Smilax is generally scarce.

Visited Chicago: C. A. Rieman, Connersville, Ind.; Samuel Henshaw and wife, West New Brighton, N. Y.; F. G. Foster, Hamilton, Ont.; J. Horace McFarland, Harrisburg, Pa.; R. G. Rau, St. Joseph, Mo.; Chas. Loveridge, Peoria, Ill.; Wm. Sharpe, Kansas City, Mo.; Andrew Washburn, Bloomington, Ill.; N. Admiral, Danville, Ill.; John Evans, Richmond, Ind.; H. B. Beatty, Oil City, Pa.; Mr. and Mrs. Jas. Hancock, Grand Haven, Mich.

Philadelphia.

The October meeting of the Florists' Club was well attended and very interesting. It was the night for the election of officers to serve for the ensuing year, and as there had been but one person nominated for each office the secretary cast the ballots for the various candidates. The officers are: President, Edwin Lonsdale; Vice-President, H. C. Scheafer; Secretary, H. F. Michell; Treasurer, Thos. Cartledge. Each of the gentlemen was called on for a speech and responded in a few well chosen words. The names of two gentlemen were added to the club roll.

Several questions from the box were given out, one about the prospects of the carnation for the coming season, was answered by Mr. Herr, who thought from present appearances the dealers would get all the stock they wanted, and perhaps more, and that the quality would be all right. One in reference to a flower market for Phila., referred to John Burton, was turned down by that individual as being too much of a chestnut. We presume that this must be the reason that the question is agitated every fall.

Who will be first in the race with chrysanthemums is the question that is agitating the minds of the growers. At this writing, October 7, none have as yet made their appearance, but it is only a question of a few days. Mrs. Whilldin seems to be the most forward, and is likely to be the first variety ready to cut.

Things are getting livelier and the dealers are more disposed to stock up. All kinds of flowers are looking better. Roses are improving both in size and color, and for the finer varieties the price is a shade higher, La France, Mermets, Brides being $3 to $4 a hundred; Cusins, Wattevilles, Perles, etc., 2 to 3; Kaiserins and Meteors 6; Beauties and Belles $1 to $2 a dozen. Carnations are also fast getting into form and some good flowers have been seen the past week; the best sell for $1 per hundred.

There have been no killing frosts as yet and the outside flowers are now very fine. Dahlias are at their best and quite a number of them are being sold; the price is $1 per hundred. Pyrethrum is also fine and sells well in bunches of about a hundred flowers for 15 cents. Tuberoses are very abundant at 2½ to 3. The first good cosmos arrived on the 7th and brought 50 cents a hundred. Valley is plenty at 4, smilax moves slowly at 15, asparagus 60 to 75, adiantum $1.

Myers & Santman, of Chestnut Hill, have a seedling carnation of which we think they have good reason to be proud. It is a pink, some few shades darker than

Daybreak, in fact it might be said to be half way between this fine variety and Grace Wilder in color, but having the habit and strength of Daybreak, which we believe is one of its parents. It is fully as large a flower as Daybreak, and is in our estimation the best pink carnation we have ever seen.

Pennock Bros. have out a new wagon which is a stunner, being half as large again as their old one; a new horse is also added to the stock, and we presume that the next in order will be new business.

H. H. Battles has also been obliged on account of his increasing business to add a horse and wagon; this is Mr. Battles' first attempt in this line, and we believe it is to be a stunning rig.

The Craig bowlers are getting into great shape and have defeated their opponents in the last two matches. In the last contest George Craig and John Westcott, of his side, both put up over 500 in three games, which is very good work indeed.

Secretary Farson is improving slowly, but must do a little better if he expects to be in shape for work at exhibition time; he is still confined to the house. K.

St. Louis.

Trade for the past week has been fair, and continually shows signs of improvement. The expected increase in demand owing to the Veiled Prophets' Ball was fully sustained, and while prices averaged no higher, stock was pretty well cleaned up.

The decorations at the ball were a decided contrast to what has been used heretofore. The large fountain in the center of the hall instead of being banked with palms and foliage plants as formerly was covered with fine wire netting, making it like a circular tent; inside this were placed numbers of colored electric lights, and upon the netting various designs and figures were worked, symbolical of the Veiled Prophet organization. The base of the fountain was banked with palms. Taken as a whole the effect was novel and was variously commented upon; the flowers used were mostly outdoor stuff consisting of dahlias, cannas, gladiolus, lilies, etc.

The orchestra was placed on a raised platform and screened with Asparagus plumosus, with bunches of lilies at intervals. The staircases and walls were decorated with flags. Suspended from the balcony, which overlooks the hall on all sides, were baskets of plants and canary birds in cages alternately. This latter feature might be done away with altogether, as the birds never utter a note and the baskets are too high to have any effect. Flowers were used by the majority attending, mostly carried, although many were worn.

At the last meeting of the Bowling Club an assessment of $1 per member was levied, and the boys were so jubilant over the promise of cooler weather that several heavy averages were made, the best being by Geo. Ostertag, who in four games had 212, 213, 186 and 201 to his credit, giving an average of 203. Next came John Young with an average of 183, closely followed by J. Beneke and C. Beyer, with 181 and 175 respectively. The bowling all through was good.

The Michel Plant & Bulb Co. have issued a circular notifying the trade that on October 10 they will offer at auction their stock of palms, as well as quantities of ferns, aspidistra, grevilleas, hydrangeas, etc. The move is a novelty in this section and the result will be watched with interest.

Wm. Huckey, who has built this season in Belleville, Illinois, has his houses planted with carnations and roses. He has already commenced to cut carnations, and his roses are looking well; they consist of Brides and Bridesmaids. His houses are piped upon an entirely new system and the outcome is being watched with considerable interest by those in the trade. R. F. T.

Buffalo.

Business has been quite good for this time and flowers are plentiful. Carnations are the most scarce. Our commission man is receiving a fine assortment of flowers daily and we all depend on him in case of an extra call. There was never so fine a lot of roses seen in this city at this time of year as there is at the present season. A call at the store of W. J. Palmer & Son this day let the writer see a magnificent lot of roses of their own growth and of a quality away above proof: Testout, Beauties, Mermets, Brides, Meteors, and all were good, but the finest of all were the La France. D. B. Long is so confoundedly busy with his bulb business that he has no time to be civil to his customers. He hopes to get through with his bulbs this week so he can take one more (about the 5th) trip to Chicago. W. A. Adams, better known as "Andy," of the firm of Adams & Nolan is in Chicago. Next week will see several more on the road for the white city.

Weddings are coming off as they should at this season of the year. One of the most noticeable of them this week was on Franklin street, where orchids figured largely. The ceremony took place under a canopy of asparagus, from which was suspended a handsome basket of orchids. A mantel was also finely decorated with orchids and Farleyense fern. This order was given entirely because the bride had seen orchids used at some other party, at which she attended, so it seems there will come a time when orchids will bring their value.

An amusing incident of the week has been the visit of Mr. Burt Eddy and Mr. Lloyd Vaughan of Chicago. B. E. is certainly the comedian of our national society and the wrinkles of his face are marvelous.

The oldest son of Wm. Scott was married last Thursday. The ceremony was very quietly performed, but on Saturday at the house of the bridegroom's father, a ratification meeting was held. All previous actions were endorsed and the ten score of folks present, young and old, went away saying they had had a good time. Mr. Eddy added largely to the enjoyment of most of the elderly matrons.

A very popular stevedore died last week and the funeral called for a large lot of flowers. J. H. Rebstock got the bulk of the order and had so much of it that he had to call on his neighbors to help him out, which they cheerfully did.

W. S.

Baltimore.

The Cactus Club's exhibition was altogether a most creditable affair. It effectually did away with the idea that no exhibition of plants can prove a success here unless in bloom, for besides being crowded with visitors daily it was brilliantly successful financially.

The hall was, unfortunately, much too small, giving only about one half enough space for either exhibits or visitors, but to an onlooker from the main entrance presented quite a pretty though crowded appearance. A group of tall plants (palms, etc.,) in the center concealed the musicians, and a bank across the end of the hall afforded a pleasing background. Just in front of the central group was a masterpiece of mosaic bedding, a circle about fifteen feet in diameter, worked out in an intricate pattern of echeverias and cacti, with lines of crimson, yellow and red alternanthera running through it. It was designed and executed by Mr. Chas. Seybold.

Walking around among the groups of visitors one could not help being struck by the familiarity with which many described the habits and flowers of occasional specimens to others and even named them. To be sure the names were not according to any botanical treatise, but they sufficed, and it may be questioned whether a great deal of the popularity and success of the show was not due to the fact that every amateur flower grower could find his or her rat tail, fish hook, snake, turkshead, prickly pear or old man cactus somewhere in the display, or something that was nearly enough like them to pass for them. Popular names are great helpers to spread the love of flowers, and it is to be hoped that, with all the possible confusion that may result, they will increase and multiply till every flower has a common everyday title, as well as a technical and, too frequently, jaw breaking one.

There were numerous good things in the cactus line at the show, especially among the mammillarias: possibly the very prettiest thing in the entire lot was a plant of M. lasiacanthus, which, with its tuft of spines on each projection seemed covered with pearly white blossoms. There was a plant of Cereus giganteus six feet high and eighteen inches in diameter; another of C. colubrinus twelve feet, and several great trees of euphorbias.

A glass case contained a choice collection sent on for exhibition by a German firm, among which were Mammillaria cirrhifera, M. micromeris, M. radiosa, M. picturata, M. Schellhases sericata, M. applanata, M. longimamma. They were all quite small, but perfect in every way and to a close observer very beautiful. This was the only collection on exhibition that was named, all the other plants being numbered and staged for effect. The members of the club were unwilling, as the exhibition was not competitive, to say which plants belonged to any one. No premiums were offered of any kind, and the show was unique in this as well as in many other ways. It is popularly supposed here that we have the only Cactus Club in America and have given the first exhibition exclusively of cacti.

MACK.

Washington.

October opened with a rush in the florists' line, largely owing to several so-called fall and removal openings of some of our larger dry goods stores. Otherwise trade of late has been very quiet, and mainly confined to funerals and weddings. Society is altogether dormant as yet, and balls, parties and the like are not even talked of. Florists, in common with other lines of business, have suffered severely from the prevailing depression. On being asked "How is business?" a florist the other day remarked, "Oh! we are doing fairly well for the season, but cannot make collections."

During the past summer the Gude

Brothers sold their entire original plant on the south side of the Good Hope Road to Lacy & Kramer, the latter formerly with Studer, and the first named head man at one time with the Gudes. The Gude Brothers at once erected a new establishment nearly opposite to their former place, which, when finished is to exceed in dimensions their old one.

Strauss has opened a branch of his Masonic Temple salesroom in one of the fine stores fronting on Thomas Circle, 14th street. And Studer, I learn, has leased what he is pleased to call a "chrysanthemum farm" in the vicinity of Alexandria, Va. H.

Toronto.

Trade has perhaps been a little better all round this week, and it is to be hoped that the dull time is about over and that business may keep on improving as the winter approaches, but there have only been a few very slight frosts as yet.

The parks and gardens and suburban walks are looking very pretty now with their autumn tints. The mountain ash is very heavily berried this year.

The chrysanthemum show has been postponed to November 21-24. This is perhaps a little late, but owing to Thanksgiving Day falling on the 23d this year it was thought better to take the week that would include that day. It is perhaps a week later than a chrysanthemum show ought to be, but it should not be difficult to retard the plants and flowers in order to have them in perfection at that time; in fact it is often difficult to get the best flowers out by the first week in November. Thanksgiving Day being a general holiday all over the Dominion, a good crowd may always be reckoned on as certain, and this fact of course went a long way towards inducing the committee to change the date. E.

News Notes.

LOGAN, O.—H. Gompf has added three new greenhouses.

NEW ALBANY, IND.—A lilac bush was in full bloom here during September.

GRAFTON, MASS.—Frank Fisher has just completed a two hundred foot house.

CHESHIRE, CONN.—J. Walter has removed his greenhouses and business to this place.

NORTHAMPTON, MASS.—Chas. H. Brewster died suddenly from heart disease, October 7.

MERIDEN, CONN.—Wm. Woodley has recently completed a range of four fine greenhouses.

RANDOLPH, MASS.—B. L. Clark has added another large greenhouse to his establishment.

EVANSVILLE, IND.—Theo. D. Kuebbe is building three new greenhouses and has opened an office in this city.

WAPPINGERS FALLS, N. Y.—Mr. I. T. N. Harcourt has completed his new greenhouse. It is fitted with all modern improvements.

PITTSBURG, PA.—The Pittsburg and Allegheny Florists' and Gardeners' Club has decided not to give a chrysanthemum show this season.

SHARON, MASS.—An incendiary fire was started in the potting shed of A. N. Davenport's greenhouses early in the morning of October 2, and about thirty feet of the greenhouse was consumed. Loss $1,000.

PITTSFELD, MASS.—The schedule for the chrysanthemum show of the Gardeners' and Florists' Club of Berkshire county has been issued. The exhibition will be held at the Coliseum, Pittsfield, on October 31-November 1, 2, 3.

MORRISTOWN, N. J.—The greenhouses and barns belonging to Thos. G. Holton were destroyed by fire on the night of October 3. All the plants and two horses were included in the loss, which was estimated at $10,000. The fire is supposed to have been incendiary.

PROVIDENCE, R. I.—The Rhode Island Horticultural Society will hold its annual chrysanthemum exhibition in Music Hall November 8, 9 and 10. From various sources come reports from exhibitors that their display this year will eclipse all former efforts. A large premium is offered for collections and silver cups for cut flowers

CINCINNATI.—Trade seems very unsettled and our retail stores are still complaining on this account. Roses, carnations, and lily of the valley are now coming in much better, both in quality and quantity. Chrysanthemums will make their appearance in this market on Monday, October 9, and during the season will turn out some very choice flowers.

MINNEAPOLIS, MINN.—A party variously known as H. J. Smith, H. Smith and J. H. Smith, recently in the employ of R. J. Mendenhall, succeeded in borrowing various sums of money from his fellow employes and then left for parts unknown. Smith was a good workman but unprincipled. He boasted of having visited nearly every country on the globe and was a glib talker; could speak four or five languages, was polite and made a good impression. The trade should be on the lookout for him and see that he is unable to repeat the tricks he played in this city.

CLEVELAND, O.—Mr. J. C. Gooding is again in charge of the Gordon rose houses, which are now in the hands of a grandson of the late W. J. Gordon. Mr. Gooding took charge four months ago and since then six splendid new houses have been added to the establishment. Four of these are 20x100 and the other two are 20x150. This makes thirteen houses in all. Three of the houses will be planted with violets and two with carnations; the rest, as usual, are in roses. All the stock is in excellent condition and will undoubtedly yield the returns for which Mr. Gooding is noted. A visit to this place will be worth the while of any grower.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By a gardener and florist; single. First-class references. Address H I, care Baumgartner, 111 Strig St., Chicago.

SITUATION WANTED—By German, 28 years of age, as assistant; good greenhouse man; single. Address E N, P. O. Box 64, Bedford, N. Y.

SITUATION WANTED—A French gardener, of great experience, employed at the Fair wishes a situation, gentleman's place preferred. Can give the best references. Address A Z, care Am. Florist.

SITUATION WANTED—As foreman in commercial place. Have had 10 years' experience in growing of roses, carnations, violets, etc., and can furnish good references. Address D P, 3900 Wentworth Ave., Chicago.

SITUATION WANTED—As traveling salesman for seeds, plants, bulbs, etc. Am at present holding a like position; will be disengaged November 1st. State salary. Address SALESMAN, care F Stevens, Claymont, Delaware.

SITUATION WANTED—As foreman or manager in a commercial place of 25,000 or 30,000 feet of glass. Specialist in growing American Beauties, La France, and other varieties; also carnations and violets. First class place wanted. Best of references. State wages and particulars. Address P Y, care Am. Florist.

SITUATION WANTED—By a young Hollander, speaks English, wants to change from present situation: 12 years' experience in bulb growing and forcing; understands the seed and greenhouse business. Understands thoroughly the French and German languages. Good references. G L W, care Am. Florist.

WANTED—A first-class maker-up and salesman at once; permanent place to right party. Address J J M, care American Florist, Chicago.

WANTED—A general florist, one who can grow roses, carnations, and general plants; also make up floral work. N. ADMIRAL, Danville, Ill.

WANTED—In private place, a capable single man, of good habits; experienced in care of orchids, as well as a general collection of plants. Must milk and care for one cow, attend two fires and be generally useful. Address, with full particulars, AMATEUR, care American Florist.

FOR SALE—One complete set (4 volumes) of Nicholson's Dictionary of Gardening—never used; cost $24.00. How much for them. Address A. ED. GRUETTER, 945 N. Clark, Chicago.

FOR SALE CHEAP—The very handsome oak finished and plate glass ice box, shown in our exhibit at the World's Fair. Visiting florists in need of a fine box will please examine this. VAUGHAN'S SEED STORE, Chicago.

FOR SALE OR RENT.

Rose and cut flower growing plant containing about 35,000 square feet of glass; houses heated by steam and hot water; all in good condition; well stocked with roses, ferns, palms, etc. Only 18 minutes ride from center of city. If you mean business, address FLORIST, care Chas. E. Prather, Louisville, Ky.

FOR SALE.

Want to dispose of a one year lease of greenhouses from September 1st 1893, together with all the plants, pots, sash, tools, etc. Everything in running order; good trade in town of 8,000 inhabitants. Good reason for selling. Any one wishing to start in business, here is a paying place. Address Lock Box 494, Webster, Mass.

FIELD-GROWN

CARNATIONS

2000	Daybreak	per 100	$10.00
500	Mangold	"	5.00
500	Harrison	"	5.00
5000	Hinze's	"	5.00
1000	Garfield	"	5.00

VIOLETS. 5,000 Marie Louise, per 100, $5.00. 10 per cent. discount for cash with order.

NATHAN SMITH & SON,

167 W. Maumee St., Adrian, Mich.

FIELD-GROWN CARNATIONS.

I offer the following varieties in quantity; all strong, healthy plants, ready Sept. 10th:

Mrs. Fisher, L. L. Lamborn, Puritan, Lizzie McGowan, White Dove, Angelus, Daybreak, Mrs. Ferd. Mangold, Thos. Cartledge, Emily Pierson, Wm. F. Dreer, Golden Gate, Peachblow Coronet, Cæsar. A number of other kinds in small lots. Correspondence solicited.

C. J. PENNOCK, The Pines, Kennett Square, Pa.

FIELD-GROWN

CARNATIONS.

30,000 FIRST-CLASS PLANTS.

Nellie Lewis, Puritan, Portia, McGowan, American Flag, Daybreak, Annie Wiegand, J. J. Harrison, Hinze's White, Tidal Wave and other varieties. Send us a list of what you want, and get our *Special low* prices.

VICK & HILL, Rochester, N. Y.

2000 FIELD-GROWN CARNATIONS

Best winter blooming sorts; fine plants, full of buds, at $8.00 per 100.

The same from 5 and 6-inch pots, $12.00 per 100. Cash with order.

☞ Plants shipped same day orders are received.

HENRY SMITH FLORAL CO.,

130 Monroe Street, GRAND RAPIDS, MICH.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

Carnations, Pansies

20,000 CARNATIONS.

Extra strong, healthy, field-grown plants. Not rust. Per 100

6,000 Grace Wilder	$ 6 00
3,000 Portia..	5 00
600 Mayflower.	
5,000 Orange Blossom.	
4,000 Tidal Wave	
15,000 Hinze's White.	

Other varieties in small quantities.

The Jennings Strain of large-flowering and fancy Pansies, 65c. per 100 by mail; $5 per 1000 by express; 5000 $20. White and Yellow, separate colors, same price.

PANSY SEED. Finest mixed—pure white, yellow dark eye, each per trade pkt. 50c. and $1. Mixed per oz. $6. White or yellow $5 per oz.

Address **E. B. JENNINGS,**
Lock Box 254. SOUTHPORT, CONN.

40,000 Carnations.

FIELD-GROWN. FREE FROM RUST.

	Per 100
7000 Grace Wilder	$ 6.00
5000 Portia	5.00
3000 Tidal Wave	5.00
5000 Orange Blossom	5 00
2000 Fred. Creighton	5.00
2000 Silver Spray	5.00
500 Lamborn	5.00
500 Anna Webb	5.00
500 Garfield	5.00
500 White Wings	5.00
500 Snow Bird	5.00
500 Lizzie McGowan	5.00
200 Mayflower	5 00
15,000 Hinze's White	5.00

Also extra fine strain of Pansies. Large flowers and fancy colors. Large flowering plants..... 1.00 per 1000, $8.00.

Cold frame size, by mail.....per 1000 $5.00; .65

CASH WITH ORDER.

Address **GEO. B. WHITEHEAD,**
Lock Box 116. Greens Farms, Conn.

FIELD-GROWN

CARNATIONS

MRS. FISHER, MRS. CARNEGIE,

and a general line of other standard sorts and new varieties. Fine, healthy plants, $5.00 to $7.00 per hundred.

CASH WITH ORDER.

Fred. Bürkii,
Bellevue, Allegheny Co., Pa.

FIELD GROWN CARNATIONS.

Fine healthy plants for **Winter Bloom.**

W. R. SHELMIRE,
CHESTER CO., AVONDALE, PA.
Send for Circular.

CARNATIONS.

Healthy plants for winter blooming.
TUBEROSE BULBS, home-grown, by the thousand.
CUT FLOWERS of Carnations in season.

Chas. T. Starr,
AVONDALE, Chester Co., PA.

IT COSTS NO MORE TO

GROW GOOD CARNATIONS

THAN TO GROW POOR ONES.

We have a good stock of field-grown Carnations of all the best varieties. Send for price list.

Geo. Hancock,
GRAND HAVEN, MICH.

CARNATIONS AND VIOLETS.

Strong, healthy plants. The leading varieties of Carnations and Marie Louise Violets.

LOUIS A. GUILLAUME, East Onondaga, N. Y.

50,000 CARNATIONS.

Portia, Lizzie McGowan, Garfield, Hinze's, Pr. of Kennett, Hinsdale, Lamborn, Mrs. F. Mangold, Grace Wilder. Fine, stocky, field-grown plants; perfectly healthy. Shipped by our improved method of light packing to almost any part of the country. **Price, $5.00 per 100.**

POSITIVELY NO RUST. NEVER HAVE HAD IT ON OUR CARNATIONS.

ROSES. We still have a few thousand strong, healthy and vigorous plants. PERLES, in 4-inch pots, $10 per 100. PERLES, MERMETS, BON SILENE, SAFRANO, LA FRANCE, 3-inch pots, $7.00 per 100.

J. L. DILLON, BLOOMSBURG, PA.

CARNATIONS.

We have for sale the finest stock of Carnation Plants in the United States. Send for price list.

J. B. DEAMUD & CO., 45 Lake Street, CHICAGO.

CARNATIONS

Strong, healthy, field-grown plants.

PORTIA	$ 6 00	per 100
LIZZIE McGOWAN	6 00	"
GRACE WILDER	6 00	"
TIDAL WAVE	6 00	"
FRED. DORNER	7 00	"
GARFIELD	7 00	"
ANNA WEBB.	8 00	"
AURORA, fine new pink	8 00	"
NELLIE LEWIS, new	10 00	"
DAYBREAK	12 00	"
MARIE LOUISE VIOLETS	4 00	"

ADDRESS **N. S. GRIFFITH,**
Jackson Co. INDEPENDENCE, MO.

Independence is well located for shipping, being 8 miles East of Kansas City, Mo.

We Have

A FEW HUNDRED EACH

MRS. FISHER	$ 6.00 per 100
AURORA	12.00 "
PURITAN	10 00 "
GOLDEN GATE	5.00 "

EDW. SWAYNE,
Kennett Square, Pa.

30,000

CARNATIONS, FIELD-GROWN.

Strong, healthy plants.

American Flag, Portia, Garfield, Hector, Mrs. F. Mangold, Hinze's White, Grace Wilder, Lamborn, Golden Gate, Robert Craig.

$5.00 per 100.

FERNS.—A fine lot of Pteris and Adiantums, 2 and 3-inch pots, for florists' use. Write for prices—very low.

Evenden Bros.,
WILLIAMSPORT, PA.

Forcing Roses.

A stock of the best varieies always on hand.

M. A. HUNT, Terre Haute, Ind.

Field-Grown Carnations.

HINZE'S WHITE, PORTIA, PETER HENDERSON, per 100 $6.00.

I. L. PILLSBURY, Macomb, Ill.

FIELD GROWN CARNATIONS.

Roses & Smilax, from 2½ & 3-in. pots.

KEMBLE FLORAL CO., Oskaloosa, Iowa.

Always mention the AMERCAN FLORIST when writing to advertisers.

ROSES.

Fine healthy stock. Per 100 P. 1000

Perles, Mermets, The Bride, Sunset, Niphetos, Bon Silene, Souv. d'un Ami, Duchess of Albany, Mme. Cusin, Mme. de Watteville, from 3-in. pots..... $8.00 $75.00

CARNATIONS.

Fine, healthy stock.

PURITAN, best white, early and productive, **Aurora, Grace Darling, Lizzie McGowan, Golden Triumph, Constance, W. F. Dreer, Tidal Wave, J. R. Freeman, Silver Spray, Grace Wilder, Portia, The Century, John McCullough, Orange Blossom.**

Price, 1st size, $8.00 per 100; $70 00 per 1000.
2nd size, $6.00 per 100; $50.00 per 1000.

Daybreak, Pearl, Crimson Coronet.
Price, $10.00 per 100.

NOTE.—Our carnations have been kept sprayed and are in fine, healthy condition.

SMILAX, from 2½-inch pots..... 2.50 20.00

Lots of other Fine Stock.
Send for new list.

WOOD BROTHERS,
Fishkill, N. Y.

10,000

JACQ ROSE PLANTS

From open ground, 1 and 2 year old, on their own roots, well branched.

2 feet high	$10.00 per 100
2 to 2½ feet high	12 00 "
3 to 4 feet high	15.00 "

Sample of 8 for $1.00 in advance.

JORDAN FLORAL CO.,
706 OLIVE ST., ST. LOUIS, MO.

The Grand New Forcing Rose,

"American Belle."

Prices and full particulars on application.
John Burton, Chestnut Hill, Philadelphia.

Hybrid Perpetual Roses,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

ROSES.

		Per 100	Per 1000
2000	Perle, 3-inch	$ 5.00	$40.00
1000	" 2½-inch	3.00	25.00
600	Bride, 2½-inch	3 00	25.00
1200	Mermet, 2½-inch	3.00	25.00
150	Waban, 2½-inch	3.00	
200	Hoste, 2½-inch	3.00	
150	Am. Beauty, 4-inch	10.00	
300	Mme. Testout, 3-inch	15.00	

BROWN & CANFIELD, Springfield, Ill.

FLORAL DESIGNS

The Cut Flower Worker's Friend. Fine book of 160 pages. Send **$3.50** for it, to

J. HORACE McFARLAND, Harrisburg, Pa.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent, 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Chrysanthemum Shows.

Pittsfield, Mass., Oct. 31-Nov. 3—Berkshire County Gardeners' and Florists' Club. W. M. Edwards, Sec'y, 103 Howard St., Pittsfield, Mass.

Baltimore, Nov. 6-11—Gardeners' Club of Baltimore. Wm. McRoberts, Jr., Sec'y, 304 W. Madison St.

New York, Nov. 6-13—New York Florists' Club. John Young, Sec'y, 53 West 30th St. Henry McCrowe, manager of exhibition, Grand Central Palace.

Milwaukee, Wis., Nov. 7-9—Milwaukee Florist Club. A. Klokner, Sec'y, 219 Grand Ave.

Newport, R. I., Nov. 7-9—Newport Horticultural Society. John J. Butler, Sec'y, P. O. box 313.

Hartford, Conn., Nov. 7-9—Hartford County Hort. Society. Edw. S. Young, Sec'y, 60 Oak St.

Boston, Nov. 7-10—Massachusetts Horticultural Society. Robert Manning, Sec'y, 101 Tremont Street.

Chicago, Nov. 7-10—Horticultural Society of Chicago. W. C. Egan, Sec'y, 620 Dearborn Ave.

St. Louis, Nov. 7-10—St. Louis Florists' Club. E. Schray, Sec'y, 4101 Penusylvania Ave.

Indianapolis, Ind., Nov. 7-11—Society of Indiana Florists. Wm. G. Bertermann, Sec'y, 37 Mass. Avenue.

Philadelphia, Nov. 7-11—Pennsylvania Horticultural Society. D. D. L. Farson, Sec'y, Broad St.

Worcester, Mass., Nov. 8-9—Worcester County Hort. Society. Edw. W. Lincoln, Sec'y.

Montreal, P. Q., Nov. 8-10—Montreal Gardeners' and Florists' Club. Henry Stocking, Sec'y, 230 St. Denis St.

Providence, R. I., Nov. 8-10—Rhode Island Hort. Society. C. W. Smith, Sec'y, 61 Westminster St.

Louisville, Ky., Nov. 9-14—Louisville Florists' Club. H. Nanz, Sec'y, 582 Fourth Ave.

Springfield, Mass., Nov. 14-16—Hampden County Hort. Society. Joseph Booth, Sec'y, care of Springfield Institution for Savings.

Washington, Nov. 14-17—Florists' Club of Washington. G. W. Oliver, Sec'y, 1844 8th St., N. W.

Toronto, Ont., Nov. 21-24—Toronto Gardeners' and Florists' Association. A. H. Ewing, Sec'y, 85 Carlton St

Catalogues Received.

Jno. R. & A. Murdoch, Pittsburg, trees, shrubs, bulbs, etc.; Ketten freres, Luxembourg, Europe, roses; August Rolker & Sons, New York, florists' supplies; W. Pfitzer, Stuttgart, Germany; plants and bulbs; Baker Bros., Fort Worth, Texas, seeds, bulbs, plants and nursery stock; Fred'k W. Kelsey, New York, trees, shrubs and plants; R. Douglass & Sons, Waukegan, Ill., evergreens; Spirit Cured Tobacco Co., Louisville, Ky., extract of tobacco; Chas. D. Ball, Holmesburg, Philadelphia, palms, ferns and decorative plants.

J. L.—Red spider is due to a hot dry atmosphere. Syringe the foliage frequently and forcibly, and use other means to maintain a moist atmosphere in the house, such as wetting the walks on bright days.

SUBSCRIBER will find methods of tempering hydrant water described in our issues of August 13, 1891 (No. 167), February 11, 1892 (No. 193), and March 24, 1892 (No. 199).

THE 36th annual meeting of the Missouri State Horticultural Society will be held at Fulton, Mo., December 5, 6 and 7. 1893.

"JACQ" ROSES the Year Around.

We are now Cutting THOUSANDS DAILY of

* METEOR ROSES. *

The finest Crimson Summer Rose, equal to "Jacq" in color and far superior in keeping qualities. Can supply it in quantity at all times. Prices on application.

F. R. PIERSON COMPANY,
Tarrytown-on-Hudson, N. Y.

NOTICE.

After Oct. 15, Chrysanthemums that are mums. I will have mums that will have no superiors; they will be "Prize Winners" and don't you forget it.

FOR NOW: AMERICAN BEAUTIES, METEORS and a variety of ROSES. CARNATIONS, in variety. LILY OF THE VALLEY, ORCHIDS, ASPARAGUS and ADIANTUM.

Send in your orders and have them promptly filled, properly packed, and shipped on time.

T. J. CORBREY, Wholesale and Commission Florist,
PHONE, MAIN 4508. 45 Lake St., CHICAGO.

FOR DECORATING, NOTHING CAN EQUAL
ASPARAGUS PLUMOSUS NANUS.
CUT STRINGS 8 TO 12 FEET LONG, 50 CTS. 12 TO 18 FEET LONG, $1.00.
Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.
W. H. ELLIOTT, Brighton, Mass.

THE
WISCONSIN FLOWER EXCHANGE
WHOLESALE
Cut Flower Commission Dealers
468 MILWAUKEE ST.,
MILWAUKEE, WIS.

Solicit correspondence with growers of Roses, Carnations, Violets, American Beauties and other stock within shipping distance of Milwaukee, with a view to handling their consignments.

Ice Boxes
Made specially FOR FLORISTS.
Outside casings, ash, panelled ends, antique finish, walls lined with nonconducting material.
WITH GLASS FRONTS.
Two sizes carried in stock. For circular and prices address
JOHN P. TONNER,
In Cut Flower Exchange, 45 Lake St., CHICAGO.

THE
CHICAGO CUT FLOWER EXCHANGE
The First Annual Meeting of the Stockholders of the Chicago Cut Flower Exchange will be held on Friday morning, October 27th, 1893, at 10 o'clock, at 45 Lake Street, for the purpose of electing a Board of Directors, and transacting such other business as may be brought before the meeting.
T. F. KEENAN, Asst. Sec'y.

Always mention the American Florist when writing to advertisers.

WHOLESALE FLORISTS
La Roche & Stahl
N. E. CORNER
13th & Chestnut Sts.,
PHILADELPHIA.
Mention American Florist.

SAMUEL S. PENNOCK,
Wholesale Florist
REMOVED TO REAR OF 42 S. 16th ST.,
Philadelphia, Pa.

W. ELLISON,
WHOLESALE
Cut Flowers AND Florists' Supplies
1402 PINE STEET,
St. Louis, Mo.

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
WHOLESALE
FLORIST,
1122 PINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO.
Western Agent for the GREAT ANTIPEST.

Kennicott Bros. Co.
WHOLESALE CUT FLOWERS,
34 & 36 RANDOLPH STREET,
CHICAGO, ILL.
WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist and Dealer in
FLORISTS' SUPPLIES,
126 Dearborn Street, CHICAGO.
Store Closes Nights 9 P. M.; Sunday 2 P. M.

NILES CENTER FLORAL CO.
Incorporated.
WHOLESALE GROWERS OF
CUT FLOWERS of ALL KINDS
and Dealers in FLORISTS' SUPPLIES.
CHAS. W. McKELLAR, Mgr.
In Chicago Cut Flower Exchange.
45 Lake St., CHICAGO.

T. J. CORBREY,
Wholesale and Commission
FLORIST,
45 Lake St., CHICAGO, ILL.
In Chicago Cut Flower Exchange. . . .

J. B. DEAMUD & CO.
WHOLESALE CUT FLOWERS,
We have the finest stock of all varieties of Roses in the West. Shipping orders promptly attended to.
45 LAKE STREET, CHICAGO.
CUT FLOWER EXCHANGE,
Mention American Florist.

DAN'L B. LONG,
COMMISSION • FLORIST,
495 Washington St., BUFFALO, N. Y.
FORCING BULBS, FLORISTS' SUPPLIES, LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application.

H. L. SUNDERBRUCH,
Wholesale Florist
4TH AND WALNUT STREETS,
Cincinnati, O.

HARDY CUT FERNS
LAUREL FESTOONING,
SPHAGNUM MOSS,
IN ANY AMOUNT ALWAYS ON HAND.
H. E. Hartford,
18 Chapman Place, BOSTON, MASS.

When writing to any of the advertisers on this page please mention the American Florist.

Wholesale Markets.

Cut Flowers.

NEW YORK, Oct. 7.

Roses, Gontier	1.00
" Meteor	2.00@ 6.00
" Beauty	5.00@15.00
" general assortment	1.00@ 3.00
Carnations	1.00@ 2.00
Gladiolus	1.00@ 1.50
Valley	6.00
Auratum lilies	4.00
Asters	.50
Smilax	10.00@12.00
Adiantums	1.00

BOSTON, Oct. 7.

Roses	2.00@ 4.00
Carnations	2.00
Asters	.50@ 1.00
Gladioli	1.00@ 1.50
Lily of the valley	5 00
Tuberoses	.50@ 1.00
Violets	.50@ 1.00
Smilax	12.50
Adiantum	1.00
Asparagus plumosus	50.00

PHILADELPHIA, Oct. 7.

Roses	2.00@ 5.00
" Beauties	12.00@15.00
" Meteors	5.00
Carnations	1.00
Asters	1.00
Gladiolus, tuberoses	2.50@ 3.00
Valley	4.00
White hollyhocks	.75@ 1.00
Balsams	.25@ .50
Adiantum	.75@ 1.00
Smilax	12.00@15.00
Asparagus	60.00@75.00

CHICAGO, Oct. 10.

Roses, Perles, Guillot, Niphetos	2.00@ 3.00
" Albany, Bride	3.00@ 4.00
" Meteor	5.00
" Beauties	8.00@15.00
Carnations	.50@ 1.00
Valley	5.00
Violets	2.00
Cosmos	1.00
Tuberose (short)	.75
" (spike)	8.00
Smilax	12.00@15.00
Asparagus	75.00

ST. LOUIS, Oct. 9.

Roses, Bon Silene, Perle, Niphetos	2.00@ 3.00
" Bride, Mermet, Watteville	3.00@ 4.00
" Hoste	2.00@ 4.00
" Albany, La France	3.00@ 4.00
" Wootton	2.00@ 3.00
" Beauty	5.00@20.00
Carnations, short	.75
" long	1.00@ 2.00
Violets, single	.25
Smilax	12.00@18.00
Adiantum	1.25

CINCINNATI, Oct. 7.

Roses, Beauty	5.00@15.00
" Mermet, Bride, La France	3.00@ 4.00
" Perle	3.00
Carnations, long	1 00@ 1.50
" short	.50
Valley	4.00
Smilax	15.00
Adiantum	1.00@ 1.50
Asparagus	50.00@75.00

BUFFALO, Oct. 9.

Roses, Beauties	15.00@20.00
" Gontier, Niphetos, Hoste, Perle	4.00@ 5.00
" Mermet, Bride, Meteor	5.00
" Testout	6.00
" La France	6.00@ 8.00
Carnations, long	1.00@ 1.25
" short	.75
Valley	5.00
Smilax	12.00@15.00
Asparagus	50.00

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers AND Florists' Supplies
WHOLESALE.
67 Bromfield Street, BOSTON, MASS.

WHOLESALE FLORISTS,
JOBBERS IN . . . FLORISTS' SUPPLIES,
METS, BRIDES, GONTIERS, CARNATIONS, ALWAYS ON HAND.
FLORISTS' VASES.
1 Music Hall Place, BOSTON, MASS.
HORTICULTURAL AUCTIONEERS. . .

CUT SMILAX,
15 cts. per string till November 1st. Quality first-class. Special attention to orders by wire.
J. E. BONSALL & SON, 308 Garfield Ave., Salem, O

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN AND SHIPPERS OF
Choice Flowers.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST.
32 West 30th Street, NEW YORK.
Roses Shipped to all Points. Price list on application.

JOHN YOUNG,
Commission Dealer in
CUT FLOWERS.
WHOLESALE.
53 WEST 30TH ST., NEW YORK.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT • FLOWERS,
51 W. 30th St., NEW YORK.

JAMES HART,
WHOLESALE FLORIST.
117 W. 30TH ST., NEW YORK.
The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHRS,
WHOLESALE
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.
Established 1879. . . .

MILLANG BROS.,
Wholesale Florists,
17 WEST 28TH STREET,
NEW YORK.
BRANCH: Cut Flower Exchange, 408 E. 34th Street.

MICHAEL A. HART,
Wholesale AND Commission Florist
113 WEST 30TH STREET,
. . . NEW YORK.
THE FINEST ROSES AND CARNATIONS.
Branch, at Cut Flower Exchange, 408 E. 34th St.

EDWARD C. HORAN,
34 W. 29th Street, NEW YORK.
Wholesale Florist
Careful Shipping to all parts of the country.
Price list on application.

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St., BOSTON, MASS.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and treasurer, 116 Chambers street, New York. Next annual meeting second Tuesday in June, (will probably be held in Toronto.)

VISITED CHICAGO: H. de Vilmorin, W. J. Langbridge, R. Engelmann of the Nebraska Seed Co.

RECENT LETTERS from Europe confirm the worst anticipations as to next year's crop of beet, carrot and other root seeds.

H. A. DAACKE, of New York City, a well known dealer in bulbs and florists' supplies, died October 4th of inflammation of the lungs.

THE CONDITION of the onion seed market is difficult to fix just now, but in a general way holders seem disposed to make a rate of from 20 to 25 per cent below last season's prices to make a start. Whites, Strasburg and Wethersfield are reported shorter on contracts than others.

Forcing Sweet Peas.

Will some one that has had success in forcing sweet peas for winter flowers please describe his method of procedure.
M. F.

DO YOU WANT a list of the leading cemetery superintendents? You will find such a list in our new trade directory and reference book.

C. M. W.—The point you raise is rather too vague and indistinct for publication.

Azalea Indica, fine plants, now on the way from Ghent; we offer **in original cases** of **fifty plants** assorted in the best market sorts, including Deutsche Perle, Mme. van der Cruysen, etc., etc., in two sizes: **the first** or about 10 to 12 in. diam. of crowns for $20 net the case; the second 12 to 14 in. diam. of crowns for $30 net the case of fifty.

Bulbs and Florists' Seeds of all kinds; for full detail see our trade list, mailed free to applicants. **Roman Hyacinths** and **Lily of the Valley Pips** our two great specialties. Prices for quantities quoted by correspondence.

Fenster Pappe, the new German substitute for glass on frames. For detail see previous advertisements. We furnish **original Rolls of about 110 yards for $9.00 net cash. Trial Rolls, enough to cover four sashes for $1.00 cash;** these latter will travel by express for little cost, weighing below 10 lbs. Southern growers should not fail to try these; they will find this a most useful article that has come to stay.

August Rölker & Sons,
136 & 138 W. 24th St., P. O. Station E. **New York.**

CHOICE SWEET PEAS.

Being the largest growers of the above in the world the trade are invited to send a list of their requirements and secure low prices for Fall delivery.

SHERWOOD HALL NURSERY CO.
Menlo Park and San Francisco, Cal.

PANSIES.

Buy no other than the pure German strain, giant flowering and other sorts; fine plants from seed bed now ready. 50 cts. per 100; $4.00 per 1000.
WILL AUSTIN, Box 810, Geneseo, Ill.

ONLY 100 CASES NOW LEFT,

Lilium Harrisii or Easter Lilies.

CHOICE BULBS and MOST DESIRABLE. Size, 7 to 9 inches, $12 50 per Case of 250 Bulbs, or $45.00 per thousand.

CHINESE SACRED LILIES,

In Original Baskets of 30 Bulbs each, $2.00 per Basket.

Special low quotations on Hyacinths, Tulips, and other Bulbs on application.

ROBERT BUIST Jr., Philadelphia, Pa.

FALL BULBS, PALMS, ETC.

LILIUM CANDIDUM, large, plump, solid bulbs, per 100 $2.75; per 1000 $23.00.
FREESIAS, clean, large, healthy bulbs, first size $4.50; select $7.50 per 1000.
ROMANS, PAPER WHITE NARCISSUS, and a **FULL LINE** of all Fall Stock.
CHINESE NARCISSUS, genuine imported, ready, per 100 $5.50.
LILIUM AURATUM, genuine imported, ready, per 100 $8.00.
CALLAS, fine, medium sized bulbs, per 100, $5.00.
ROSE C. SOUPERT, 2½-inch, fine stuff, per 100 $3.50; 3½-inch, per 100 $8 00.
LATANIAS, 4-inch stuff, grown cold, well rooted, 3 to 5 character leaves, ready for 5-inch pots, per dozen, $4 00; per 100, $30.00.
PHŒNIX RECLINATA, 5-inch, good value at doz. $5.00.
PHRYNIUM VARIEGATUM, 3-inch, dozen $1.50; 4-inch dozen $4.00; 5-inch, dozen $6.00; 6-inch, dozen $9.00; 7-inch, dozen $12.00.
PANSY PLANTS, very fine, per 1000, from seed bed, $5.00.
BOUQUET GREEN now in stock, (order early), per 100 lbs. $5.50.

Vaughan's Seed Store,
148 W. Washington St., CHICAGO. 26 Barclay St., NEW YORK.

PANSIES.

THE PLANTS are getting very good this cool weather and are just the size for planting your frames. **Samples free.**

THE STRAIN is as good as I can make it—there is none better, may be none as good. A trial is the best evidence. Price, 75 cts. per 100; $3.00 per 500, delivery free, or $5.00 per 1000, you to pay the delivery.

GERANIUMS, Rooted Cuttings, from outdoor plants, all first-class varieties and good bedders. Price, in mixture $10.00 per 1000, in separate colors $12.00 per 1000; 50 cts. per 100 extra by the 100. **Cash with the order or C. O. D.**

L. B. 496. **ALBERT M. HERR, LANCASTER, PA.**

JOHN LAING & SONS
are now booking numerous orders for their
CELEBRATED BEGONIAS.
The quality is superior to last year. First Prizes have been awarded to us whenever exhibited this season. Also the Silver Cup (highest award) at the Great Temple Show. Gold Medal at Leicester, as well as the only Gold Medal awarded at the Earls Court Exhibition 1893. Innumerable Certificates have also been given to our BEGONIA NOVELTIES.
Prices of our immense stock, which are very moderate, considering the quality, mailed free, and catalogues.
JOHN LAING & SONS,
The Great Begonia Growers,
FOREST HILL, LONDON, S. E., ENGLAND.

Sweet Pea Seed

MISS BLANCHE FERRY. . . $.60 lb.
QUEEN OF ENGLAND . . . 1.50 lb.
BUTTERFLY, ...60 lb.
MIXED 45 lb.
Cash with order. . . .
LAKE GENEVA FLORAL CO.,
LAKE GENEVA, WISCONSIN.

PANSIES.

Best mixture of German bedding varieties now ready, per 1000 $5.00; per 100 60c. We have also separate colors, ready in two weeks.
BRAUER & RICHTER,
McCONNELSVILLE, OHIO.

Best German Pansies.

From seed bench; strong plants in 50 sorts, 75 cents per 100; $5.00 per 1000.
JOHN P. TONNER,
45 Lake St., CHICAGO, ILL.
Greenhouses at Mont Clare.
Orders received in English, German and Danish.

SUPERB PANSIES.

My "Rainbow Mixture"
is a combination of the very best strains in existence, and is sure to give satisfaction. Young plants 65 cents per 100 by mail; $5.00 per 1000 by express. Cash with order or C. O. D.
GEORGE CREIGHTON, Poughkeepsie, N. Y.

Bulbs. Bulbs. Bulbs.

BEST STOCK AT MOST REASONABLE PRICES.

We guarantee to you **SOUND DELIVERY** at point of destination, accidents to carriers excepted. We give you **NET** prices of all goods if desired, showing you to a penny cost with all charges of freight, etc. included.

For Delivery NOW:

Auratum, Rubrum, Album, and 30 other sorts of Japan Lily bulbs. Great assortment of California BULBS.

Plants, for Decoration: Can be shipped throughout Fall by freight:
Araucaria excelsa in finest stock. Rhapis flabelliformis, or Humilis. Aspidistra variegata. Cyperus alternifolius, in strong clumps.

SEEDS. SEEDS. SEEDS.

Australian and California Palm seeds. Japan and California Conifer seeds. Flower seeds

PAMPAS PLUMES. New Crop Eulalia Japonica Plumes. Cycas revoluta Leave dried. Order NOW.

Orders must reach us by November 1st, as collections of stems are made during December only: **CYCAS REVOLUTA STEMS.**

Will furnish the **long leaved Cycas** at lowest prices ever offered. Send for our Trade List. We furnish cheertully any information desired, give estimates of cost, etc.

ADDRESS **H. H. BERGER & CO.,**

Established 1878. **SAN FRANCISCO, CALIFORNIA.**

MAMMOTH BULBS

LILIUM HARRISII

FOR EXHIBITION

Purposes and for growing **Specimen Plants.** Very choice and scarce.
PPICE, $25.00 per hundred.

Also a fine lot of 5 to 7, and 9 to 11.
PRICE, 5 to 7, $3.00 per hundred; $25.00 per thousand.
9 to 11, $12.00 per hundred.

F. R. PIERSON COMPANY,

TARRYTOWN-ON-HUDSON, N. Y.

HULSEBOSCH BROS.,

BULB AND PLANT GROWERS,

OVERVEEN, near Haarlem, HOLLAND.

	Per 100	1000
Lilium Harrisii, 4 to 5-inch in circ.	$1.75	$16.00
" " 5 to 7-inch in circ.	2.50	20.00
" " 7 to 9-inch in circ.	4.75	42.00
Roman Hyacinths, top roots	3.00	24.00
" " selected	2.25	21.00
" " regular size	2.00	19.00
Italian, blush white Roman, selected	2.50	21 00
Freesia refracta alba	.75	5.00
Narcissus totus albus	.50	6.50
" " " grandiflorum	1.25	10.00
" Chinensis (Sacred Lily), extra	5.50	50.00
Single Tulips, mixed, gardening	.75	6.00
Double " " "	.90	7.00
Single " " extra fine	.85	7.50
Double " " extra fine	1.00	8.00
Single garden hyacinths, mixed	2.25	18.00
Double " " "	2.50	22.00
Single forcing " "	2.50	21.00
Double " " "	3.00	25.00

Single and double named Hyacinths, Tulips, Crocus, etc., etc., at low rates.

A. HULSEBOSCH,

P. O. Box 3118. Warehouse, 58 West Street,
NEW YORK CITY.

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to

Seed Bags and Catalogue Envelopes.

NEW HAVEN, CONN.

BULBS! BULBS!

Lilium Auratum, Spec. Rubrum, Spec. Album, Longiflorum, etc. Order now.

Callas, Callas, at lowest rates: Fresh Cut Cycas leaves, prices and sizes to suit all. Fresh imported Cycas, lowest prices. Camellias, Pæonias, Japan Maples, and for general Japanese stock seeds. Remember we guarantee sound delivery, still goods travel at owner's risk. Apply to

F. GONZALEZ & CO.,
Nursery and Greenhouses, 303 to 312 Wayne Street,
SAN FRANCISCO, CAL.

Always mention the American Florist when writing to advertisers.

HYACINTHS, TULIPS.

Full assortment ready now. Our stock is A No. 1 in every way.

Lil. Longiflorum, 7-9 in. $5.50 per 100.

MUSHROOM SPAWN.

New importation ready this week. 10 pounds for $1.20; 100 pounds $8 00.

PANSY SEED.

BARNARD'S FLORIST MIXTURE is popular wherever tried. Trade packet, 25 cts.; ⅛ ounce, $1.00.

W. W. Barnard & Co.

6 and 8 N. Clark Street, CHICAGO.

☞ Send for Fall Bulb Catalogue.

Z. DeForest Ely & Co.

WHOLESALE SEEDSMEN,

Growers AND Importers of Bulbs.

JOBBERS IN

Florists' Supplies,

1024 MARKET STREET,
PHILADELPHIA, PA.

Reg. Cable Address: DeForest, Phila.
Price lists to dealers on application.

Bulbs and Plants.

FOR CATALOGUES, ADDRESS

C. H. JOOSTEN,
IMPORTER,
3 COENTIES SLIP, NEW YORK.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Watson's Corner

There is money in growing Mushrooms of course, big money; but a pre-requisite to success is good spawn. My third consignment of

THE W. P. BRAND

is now in, and is opening up in splendid condition. I will have a few thousand pounds to spare after filling orders on hand. Prices on application. This spawn is made expressly for my trade, and is guaranteed fresh and full spawned.

MUSHROOMS OF AMERICA, Palmer, $2.00
FALCONER'S MUSHROOM CULTURE, 1.50
ROBINSON'S MUSHROOM CULTURE, .50
Postpaid on receipt of price.

G. C. WATSON,

Wholesale Seedsman and Commission Merchant,

1025 Arch St., Phila., U. S. A.



Write for Wholesale List.

MICHEL PLANT AND BULB CO.,
ST. LOUIS, MO.

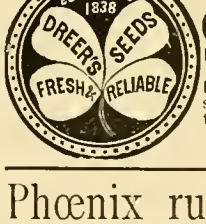
Double White Primulas.

$6.00 and $8 00 per 100.

CASH WITH ORDER.

S. TAPLIN,

962 FORT ST., W., DETROIT, MICH.



TRY DREER'S

GARDEN SEEDS,

Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.

HENRY A. DREER,
Philadelphia, Pa.

Phœnix rupicola.

This useful and beautiful Date Palm in **EXTRA FINE PLANTS,** growing in from 7 to 10-inch pots, from $3.50 to $7.50 each, according to size.

EDWIN LONSDALE, Wyndmoor,
STATION "G," PHILADELPHIA.
(Chestnut Hill P. O.)

SILKALINE

FOR TRAILING

SMILAX AND ASPARAGUS.

For sale by all leading Florists Supply Houses.

JOHN C. MEYER & CO.,
289 Devonshire St., BOSTON, MASS

Denver.

The first severe frost of the season came September 23. We have all started the fires, which will be needed every night from now on.

Mr. T. Chapman has added two substantial rose houses to his plant. He is always cheerful as to prospects and a visit to his place will do anyone good. The Colfax Floral Co. are now in shape for winter.

We have been wondering where the boys were, but were rewarded at the last club meeting, when a good delegation came down. So one by one the places are giving us their encouragement.

Business does not look up, only as one who has been knocked over on their back and is too weak to get up, would naturally look up. Very good roses are already in but as all the retailers have glass of their own, and sales are slow, the prices are away down.

Very few places in the land are managed better or produce better results than the Red Leaf place under Mr. Sked's management. A really first-class place in the west is now a common occurance and we are proud of it. LYLE.

San Francisco.

Business is brightening up in the city now. Chrysanthemums are beginning to come in. Mr. M. Lynch of the Menlo Park Nurseries and Sherwood Hall Nursery Co. are now sending in the best violets, chrysanthemums, carnations, and roses. Mr. Lynch is still sending in large quantities of sweet peas.

John H. Sievers has been cutting some grand Ivory which find a ready sale.

Mrs. C. Halbrow, who has a fine store on Polk street, has always a crowd in front of her windows watching the fine display of chrysanthemums, etc.

Carbone reports business as fair.

The Midwinter Fair buildings are progressing rapidly and the florists expect a good winter trade. J. H. G.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers

SPECIAL AUCTION SALE
OF
Ornamental and Decorative Plants
FROM
PITCHER & MANDA, Short Hills.
Monday, Oct. 16, at 10 o'clock a. m.
at Store 36 Kneeland St., BOSTON.
EDWARD HATCH, Auctioneer.
Send for circular. Office No. 9 Congress St.

ASPARAGUS PLUMOSUS NANUS.
HERE THEY ARE!
And look at the price for fine plants, in 4-inch pots, good enough to retail this winter for a dollar each. No florist should be without this salable plant.
$20.00 PER 100.
Cash with order or C. O. D.
ALEX. SCOTT,
Balto. Co., Lauraville, Md.

Supplies of all kinds, such as Bouquet Papers, Baskets, Pot Holders and Stands, Fern Dishes, Metal Memorial Designs, Wire Frames, Funeral Sheaves, Cape Flowers, Immortelles, etc., etc.; also
Cycas Leaves (Sago Palms), natural prepared, equal to fresh cut in appearance, from 28-in. upwards, at 40c., 45c., 50c., 60c., 75c. and $1.00 each, according to length; and many other items of interest to Florists contained in our beautiful and richly illustrated new Trade List just out, mailed free. Address
August Rölker & Sons,
136 & 138 W. 24th St., New York.
P. O. Station E.

CUTS!

Wood Engraving,
Zinc Etching,
Half-Tone,
Wax Engraving, Photo-Engraving,
Designing.
MANZ & CO.,
183 Monroe Street, CHICAGO. ENGRAVERS.

PALMS.
150,000 of all the leading varieties.
FERNS.
50,000 of leading varieties.
Address GEORGE WITTBOLD,
1708 N. Halsted St., CHICAGO.

Association "Flora"
BOSKOOP, HOLLAND
NURSERIES.
Roses, Clematis, Shrubs, Azaleas, Palms, Herbaceous Plants, Bulbs, Etc.
Catalogue on Application.
P. OUWERKERK,
206 Cambridge Ave., JERSEY CITY, N. J.

REED & KELLER
MANUFACTURERS OF FLORISTS' WIRE DESIGNS
122 W. 25TH ST. NEW YORK

OUR
TRADE * DIRECTORY
AND
Reference Book
WITH
SUPPLEMENT for 1893,
bringing the list of names and addresses up to date,
$2 00
AMERICAN FLORIST CO.
P. O. DRAWER 164. CHICAGO.

BOSTON FLORIST LETTER CO.,
13 Green Street, BOSTON, MASS.
Address all correspondence to 1 Music Hall Place.
Manufacture THE BEST LETTERS IN THE MARKET.
Sizes 1½-inch and 2-inch, $2 00 per 100. Patent fastener with each letter.
With orders for 500 letters we give away a nicely stained and varnished box. See cut in next week's American Florist.
Our letter is handled by all the wholesalers in Boston.
AGENTS: Marschuetz & Co., 25 N. 4th St., Philadelphia, Pa.; A. Rolker & Sons, New York; F. E. McAllister, 22 Dey St., N. Y.; Ernst Kaufmann & Co., 113 North Fourth Street, Philadelphia; H. Bayersdorfer & Co., Philadelphia, Pa.; A. D. Perry & Co., 53 Warren Street, Syracuse, N. Y.; A. C. Kendal, 115 Ontario St., Cleveland, O.; E. H. Hunt, 79 Lake St., Chicago; Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.; H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.; T. W. Wood & Sons, 6th and Marshall Sts., Richmond, Va.; Jas Vick's Sons, Rochester, N. Y.; Dan'l B. Long, Buffalo, N. Y.; C. A. Kuehn, St. Louis; F. C. Huntington & Co., Indianapolis, Ind.; Z. De Forest Ely & Co., 102 Market St., Phila., Pa.
J. A. Simmers, Toronto, Ont., Agt. for Canada.
WARNING.
A party in Williamsport, Pa., named Chas. E. Montgomery, is making and offering for sale letters which are an infringement upon our patent, and are also much inferior to those manufactured by us. We have notified them of suit unless they desist at once. Buy no letters except through our authorized agents.
BOSTON FLORIST LETTER CO.,
1 Music Hall Place, Boston, Mass.


W. C. KRICK'S
PATENT
Florists' Letters, Etc.
Highest AWARD wherever exhibited.
These Letters are made of the best immortelles, wired on wood or metal frames having holes drilled in them to insert toothpicks, by which to fasten them in the design. All infringements prosecuted.
2-inch Letters, $3 00 per 100.
Postage, 15c. per 100.
Before purchasing send for free sample and Catalogue and compare with any other letter in the market.
W. C. KRICK, 1287 Broadway, BROOKLYN, N. Y.
Agents:—J. C. VAUGHAN, Chicago, Ill.; H. BAYERSDORFER & Co., Phila., Pa.; N. STEFFENS, N. Y.; AUG. ROLKER & SONS, N. Y.; ED. S. SCHMID, Washington, D. C.; JAMES VICK'S SONS, Rochester N. Y.; T. W. WOOD & SONS, Richmond, Va.; J. A. SIMMERS, Toronto, Ont.
Mention American Florist.

H. BAYERSDORFER & CO.,
WHOLESALE
FLORISTS' SUPPLIES ONLY,
56 N. 4th Street,
PHILADELPHIA, PA.
Our new Catalogue is now out, free upon application.

MARSCHUETZ & CO.,
Florists' Supplies,
23 & 25 N. 4th St., PHILADELPHIA, PA.
Send for Catalogue.

HUNTINGTON SEED CO.
Florists' : Supplies,
66 E. WASHINGTON ST.,
INDIANAPOLIS, IND.
Standard Flower Pots, Dried Grasses, Fancy Baskets, Metal Designs. Trade Catalogue mailed free.

SMILAX.
Good, strong plants, 2½-inch pots, $2.00 per hundred; $18.00 per thousand.
Address P. M. DeWITT, Torresdale, Phila., Pa.

VARIEGATED VINCAS.
Three hundred field-grown Vincas, Six Dollars per hundred.
JOHN C. HATCHER, Amsterdam, N. Y.

Siebrecht & Wadley,

ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.

Palms,
ORCHIDS
Roses,

and New Plants.

FRESH DRACAENA CANES NOW READY.

ORCHIDS.

The Finest Stock in the World.

SANDER'S,
ST. ALBANS,
ENGLAND.

Thirty minutes from London.

Our Mr. A Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

Established and Imported

ORCHIDS.

Ig. FORSTERMAN,

Newtown, N. Y.

CLEMATIS.

Large flowering, colors in variety, double and single, strong blooming plants. Plenty of Jackmanni and Henryi, best purple and white, $3.00 per dozen; $20.00 per 100. Send for list.

CYCLAMEN persicum splendens, blooming bulbs, $8.00 per 100.

Snowflake Daisy, double white, $1.00 per 100.

Longfellow Daisy, double red, $1.00 per 100.

F. A. BALLER, Bloomington, Ill.

VIOLETS. ROSES. VIOLETS.

Our violets are positively free from disease.

	Per 100	Per 1000
Violets Marie Louise, fine cuttings	$ 2.50	$25 00
Roses Gen. Jacqueminot, from 5-in. pots.	8.00	75.00
Roses Gen. Jacqueminot, from 4-in. pots.	6.00	55.00
English Ivies, 4 to 6 feet long, pot grown.	5.00	

When ordering, give directions how to ship. Cash with order, 5 per cent. discount.

JOHN RECK, Bridgeport, Conn.

CHOICE STOCK FOR FLORISTS.

Acalypha tricolor, strong stocky plants, from bed, $10.00 per 100.

Sanchezia nobilis variegata, grand new bedding plant rivaling the croton, free grower, strong pot plants, $2.00 per dozen.

Echeveria secunda glauca, $2.00 per 100.

Cannas—A. Bouvier, J. D. Cabos, Capt. Suzzoni, Paul Marquant, $20.00 per 100. Cash.

WM. TRICKER, DONGAN HILLS NEW YORK.

CYCLAMEN persicum giganteum 3 inch pots $6.00 per 100

PANSIES, Mammoth Strains, 75 cts. per 100 $5.00 per 1000.

CARNATIONS, Dorner's Seedlings, $15 per 100
Daybreak $8.00 to $10.00 per 100
McGowan, Puritan, Wilder, and others, $8.00 per 100. Second size $6.00 per 100
Correspondence solicited.

Address **J. G. Burrow,**
FISHKILL, N. Y.

P. SEBIRE & SONS,

Nurserymen, USSY, Calvados, FRANCE.

A general assortment of Fruit Tree Stocks, such as Apple, Pear, Myrobolan Plum, Mahaleb and Mazzard Cherry, Angers Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, etc. The largest stock in the country. Prices very low. Packing secured. Catalogue free. Send for quotations before placing your order elsewhere. Agents for U. S. America and Canada.

C. C. ABEL & CO., P. O Box 920, New York.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

LOUIS BOEHMER. ALFRED UNGER.

Extract of Wholesale Catalogue 1893-'94.

L. BOEHMER & CO.,

4, 5 & 28 Bluff, Yokohama, Japan.

PLANTS.

	Per 100
ACER POLYMORPHUM, the best red leaved variegated varieties, 18 inches to 2 feet	$15.00 silver.
" " " " " 2 to 3 feet	18.00 "
AZALEA INDICA, single white, lilac, red, etc., strong bushy plants	15.00 "
ARDISIA CRISPA, beautiful red berries, 8 and 10-inch pot plants	20.00 "
CAMELLIA JAPONICA, fine plants out of pots, 15 to 18 inches high, double pink and red	15.00 "
" " " " " " " " variegated & white	20.00 "
DAPHNE ODORATA, pink or white, 18 in. high, beautiful, scented, early flowering shrub	15.00 "
GARDENIA RADICANS fl. pl.	20.00 "
" GRANDIFLORA flore pleno	20.00 "
MAGNOLIA CONSPICUA, pot grown	20.00 "
" OBOVATA, red, pot grown	20.00 "
" " purple, pot grown	20.00 "
" STELLATA, pot grown	20.00 "
" KOBUS, pot grown	15.00 "
" HYPOLEUCA, pot grown	15 00 "
" PARVIFLORA ERECTA, beautiful, scented	20.00 "
" " PENDULA, " "	25.00 "
OLEA FRAGRANS, small yellow flower, very sweet scented shrub	20.00 "
PLECTOGYNE (Aspidistra) VARIEGATA, per 100 leaves	3.00 "
SYRINGA JAPONICA, pot grown	20.00 "
SCIADOPITYS VERTICILLATA, 1 to 1½ feet, open ground	25.00 "
" " 1½ to 2 feet, "	30 00 "
" " 2 to 2½ feet, "	35.00 "
" " 2½ to 3½ feet, "	45.00 "
DAVALLIA BULLATA Fern Designs, very nice	25.00 "
	Per 1000
DIOSPYRUS KAKI, Japanese Persimmons, 6 best varieties including seedless, open ground, from 3 to 4 feet	$30.00 "
JAPANESE PLUM TREES, open ground, 3 to 4 feet	50.00 "
GIANT CHESTNUT TREES, open ground, 3 to 4 feet	45.00 "
CITRUS (Limonia) TRIFOLIA, the best stock for grafting oranges, and an excellent hedge plant (evergreen and thorny), open ground, 1 to 1½ feet	7.50 "
PEAR SEEDLING, best stock for grafting, open ground, pencil thickness, 2 to 3 feet	7.50 "
ELÆAGNUS LONGIPES, a new Japanese fruit	40.00 "

PRICES ARE FREE ON BOARD IN YOKOHAMA.

There is no danger in shipping any goods from here to the United States, we can prov sound arrival through the best and largest firms. REMEMBER THAT YOU RECEIVE FOR 100 GOLD DOLLARS about 165 silver dollars' worth of goods at the present low exchange. Freight to any United States point only 1½ gold per pound.

WE HANDLE FIRST RATE STOCK ONLY.

BANKERS: Hongkong & Shanghai Banking Corp.; Agencies: New York and San Froncisco.

We are Headquarters for CYCAS REVOLUTA, the true long-leaved variety.

Collected Stems, Fronds and Roots cut off, per 1000 lbs. $50.

Please write to us before purchasing anywhere else, as we can give you best prices, and you can depend upon our packing, etc.

CABLE ADDRESS: **BOEHMER, YOKOHAMA.**

FICUS · ELASTICA.

An extra large stock of fine, strong plants.
Write for special prices.

ANDORRA NURSERIES, Chestnut Hill, Philadelphia, Pa.

E. G. HILL & CO.,

Wholesale Florists

RICHMOND, INDIANA.

S. A. F. REPORTS.

GOOD READING CHEAP.

I have on hand a number of surplus copies of the reports of proceedings at the New York, Buffalo and Boston Conventions of the Society of American Florists. All parties wishing to procure copies of either or all of these can have them by applying and enclosing 25 cents in stamps for each, as long as they last.

Address WM. J. STEWART, Sec'y,
67 Bromfield Street, BOSTON, MASS.

You Will all Want

The New Yellow Coleus GOLDEN CROWN,
As it takes all others yellows down;
And will soon be all the go,
Because so very easy to grow.

There is nothing Pale or Weak about it. You can't afford to run without it; $3.00 per doz. Orders booked now for delivery November 1st, or as soon as ready. Or Gibson's beautiful scented Hybrid Pansies, 2000 seeds $1.00. Or Gibson's superb well mixed Hybrid XX and XXX Mammoth Verbenas, 2000 seeds 60 cts. and $1.00. Trial packet of XXX for 10 cts. in stamps. No better for florists' use ever offered anywhere; our own growing from stock composed largely of Climaxer and Beauty of Oxford and the choicest selection from the thousands of our fine seedlings, florets immense, many of them will nearly cover a silver half dollar, and of exquisite beauty and fragrance, and richest imaginable colorings. Try a packet and realize all there is in the verbena to date. Or the finest Double Fringed Petunia (Dreer's Strain), hybridized by hand, 1000 seeds $1.50. Snow Crest Daisy, $5.00 per 100. Other specialties later. Cash with order please.

Address J. C. GIBSON, Woodbury, N. J.

Fire Insurance.

As a member of the S. A. F. committee on fire insurance I was greatly pleased to read Mr. Scott's article on fire insurance in the FLORIST of September 21. If every florist would take the interest that Mr. Scott does data might be secured that would be of practical value to every florist in the land, and Mr. Michel's report to the annual convention next August would contain enough pith to keep the members awake for a whole evening session.

The main point is to make insurance companies recognize that all greenhouse risks are not alike, and just here I would suggest that every florist who is desirous of procuring fire insurance should procure a copy of the classification reported by the hail insurance committee and call the attention of his fire insurance agent to it, and then report the result to Mr. Michel.

Mr. Michel complains that his important questions are not being responded to as freely as the trade ought, but experience has taught the writer that only when a fire or hail storm comes knocking at his door can a florist be depended on to answer questions no matter how much to his interest to do so. Further, when writing to Mr. Michel give any ideas you may have concerning a trade fire organization. You may be able to suggest something that will overcome the obstacles against fire insurance at present in sight. Address E. H. Michel, Tower Grove and Magnolia avenues, St. Louis, Mo.

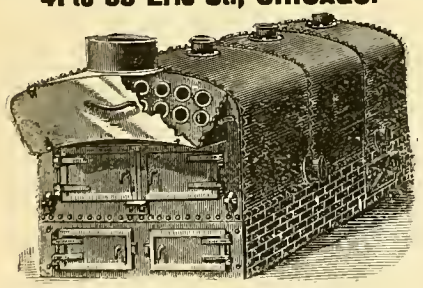
JOHN G. ESLER.

He Was Paying the Bill.

SHE—Why do roses blush I wonder?

HE—Oh, I suppose the florist's prices make them ashamed.

KROESCHELL BROS.
IMPROVED
Greenhouse & Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around front, sides and back). Write for information.

STANDARD FLOWER POTS.
Price List.

2 -inch,	Per 1000	$3.25	7-inch,	Per 100	$ 3.50
2¼-inch,	"	3.50	8-inch,	"	5.00
2½-inch,	"	4.00	9-inch,	"	7.50
3 -inch,	"	5.00	10-inch,	"	10.00
3½-inch,	"	7.25	11-inch,	"	15.00
4 -inch,	"	9.00	12-inch,	"	20.00
5 -inch,	"	13.80	14-inch,	"	40.00
6 -inch,	"	22.00	16-inch,	"	75.00

Terms cash, f. o. b. Address
HILFINGER BROS. POTTERY, Fort Edward, N. Y.
August Rolker & Sons, 136 & 138 W. 24th St., New York City, Agents for New York and vicinity.

TRADE MARKS. COPYRIGHTS.

SOLICITOR OF U. S. AND FOREIGN PATENTS,
Atlantic Building, Washington, D. C.
(Send sketch or model for free examination as to patentability.



Mention American Florist.

THE "LOCKLAND" Sash Bars

ARE ALWAYS SATISFACTORY.

This cut represents our improved Clipper Bar for Butted Glass roof—putty to be used under glass only.

GUTTER MATERIAL, RIDGES, SASH, ETC.
The finest CLEAR CYPRESS used.
Write for circulars and estimates. . . .

LOCKLAND LUMBER CO.
Lockland, O.

"Standard" Flower Pots.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Pottery Company,
BRANCH WAREHOUSES: 713, 715, 717 & 719 Wharton St., Philadelphia, Pa.
Randolph Ave. and Union St., Jersey City, N. J.
Jackson Ave. and Pearson St., Long Island City, L. I.

STANDARD FLOWER POTS

Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.

A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.

We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

Send for price list and samples and we know you will give us an order.

SYRACUSE POTTERY CO. OFFICE: 403 North Salina Street, SYRACUSE, N. Y.

STANDARD FLOWER POTS.

OLD RELIABLE MAKE OF
ELVERSON, SHERWOOD & BARKER.
Write for Catalogue and Price List.
PITTSBURGH CLAY MFG. CO. New Brighton, Pa.

STANDARD FLOWER POTS

Our new **Pottery,** new **Machinery,** the very **best Clay** in the **Country,** and our new **Patent Kilns,** all combined, make the **best Standard Pot in the market.** Send for price list.

PARMENTER MF'G COMPANY,
GEORGE MESSINGER, Manager. East Brookfield, Mass.

D. C. SCHOFIELD & CO.,
New Brighton, Pa.,
are in their new factory, manufacturing, this month, six times as many "STANDARD" FLOWER POTS as they made last season, in a month.
WRITE FOR PRICES.

Trade will be Hard to Win

this season, especially Catalogue trade. You need to put an extra shine on, to pull the reluctant dollars. Your Catalogue ought to be better than ever, to secure attention.

This is just the time we shine; we can make your Catalogue brighter, cleaner, sharper—if it's honest! We will WRITE it, ILLUSTRATE it, as well as superiorly PRINT it; you see we can MAKE CATALOGUES, body and bones, from nothing but a list and prices.

We'll do any of the three things separately, either the Writing, Illustrating or Printing.

Now is a good time to arrange for the work; we'll send samples and write to you as to details, on application. Later, we will be greatly crowded with work.

J. Horace McFarland Company, Mt. Pleasant Printery,
HARRISBURG, PA.

LITTLE'S ANTIPEST.

—A—
Valuable Discovery of the 19th Century.
SILVER MEDAL AWARDED
—BY THE—
CALIFORNIA STATE FAIR OF 1890.

This preparation is a sure destroyer of the **Scale, Wooly Aphis** and **Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure** and **Cheap.** No fruit grower or florist should be without it.

Send for Circulars and Price List.

R. W. CARMAN, General Agent,
291 AMITY STREET,
FLUSHING, Queens, Co., N. Y.

Increase Your Business

by fostering an interest in plants and flowers among the people in your vicinity. You can best do this by getting subscribers to

GARDENING . . .

which tells people how to get the most satisfaction out of their gardens, and stimulates them to enlarge and extend their gardening operations.

$1.00 A YEAR is the subscription price of this paper, which is issued twice a month, is handsomely and truthfully illustrated, is thoroughly practical, absolutely free from wind and gush and grinds no axes for anyone.

SPECIAL LOW RATE to florists who will act as agents. We want an agent in every city and town in America. Write for terms now to

THE GARDENING CO.
Monon Building, CHICAGO.

THE PERFECT DRAINAGE
BENCH TILE

For circulars, etc., address

W. P. Wight, Upland Green Houses,
Send your business card. MADISON, N. J.

Mention the American Florist when writing to advertisers on this page.

SPECIAL -$10.00- OFFER,

FOR A LIMITED PERIOD ONLY.

To introduce our specialties we make this special offer of

1 STOTT DISTRIBUTER.
1 STOTT SPRAYER (The best made.)
20 lbs. KILLMRIGHT (Non-poisonous, but Death to Insects.)

FOR $10 CASH.

Will clean your Greenhouses and out-door plants of Aphis, Mealy Bug, Caterpillar and other insects. Order through your seedsman, or direct of

ENDORSED BY LEADING FLORISTS EVERYWHERE.
WITH PROPER USE, SATISFACTION GUARANTEED.

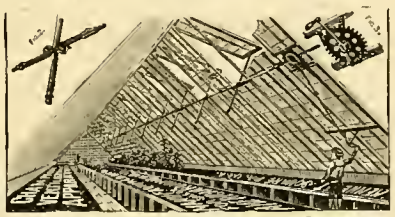
THE STOTT GARDEN IMPL'T CO.,
136 Liberty Street,
NEW YORK.

TO STOTT GARDEN IMP'T CO., 136 Liberty Street, New York.
Dear Sirs:—We have been using your **Distributer and Killmright** for six months and consider it a good thing. It is the best thing ever got out. For roses it is particularly good. It cures a rose plant of black spot and mildew and keeps them in a healthy and growing condition. We never use tobacco smoke now. It will certainly ultimately kill the mealy bug. We will keep it right along and want nothing else. Signed, BOLANZ BROS., Akron, O.

HOW TO GROW CUT FLOWERS.

A PRACTICAL TREATISE ON
THE CULTIVATION OF THE ROSE,
And Other Floweriug Plauts for **Cut Flowers**, sent to any address upon receipt of **$2.00.** **M. A. HUNT, Terre Haute. Ind.**

IT PLEASES ALL
who have used it.
USE IT AND IT CANNOT FAIL TO PLEASE YOU.



The Champion Ventilating Apparatus
CHEAP, SIMPLE, DURABLE, EFFICIENT.
☞Circular is yours for the asking. Address
AMERICAN ROAD MACHINE CO.,
. . . . Kennett Square, Pa.

Mention the American Florist when writing to advertisers on this page.

MOSS.

CHEAP FOR WINTER. . . .

Fine Moss for Funeral Work and Orchids. 60c. and 75c. per pound.

A. K. Savacool,
EAST STROUDSBURG, PA.
Mention American Florist

GLASS. ROCK BOTTOM PRICES. Send for Estimate. Satisfaction Guaranteed.
REED GLASS CO.,
65 Warren St., and 46, 48 & 50 College Place,
New York City.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

Express Rates.

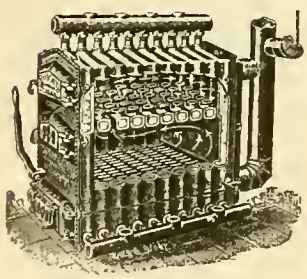
From communications recently received it would appear that there are many in the trade who do not understand that they should receive the benefit of a 20% reduction from merchandise rate on *all* express shipments of plants "Completely boxed and packed so they can be handled without extra care." The "general special" rate is still lower, but is in force only between certain points and varies, but the "20% less than merchandise rate" applies to all shipments packed as described between points for which there is no general special. We print below the present classification of the express companies:

Plants: Completely boxed and packed so they can be handled without extra care may be charged for at general special rate. Between points where no general special is in force they may be taken at 20 per cent less than merchandise rate; pound rates, minimum charge 35 cents, prepaid or guaranteed. Plants: Not so boxed and packed, double merchandise rates.

What a Vivid Imagination Will Do.

Referring to the flowering of a plant designated as a night blooming "cerus" a writer in the daily press says: "The stamens presented the appearance of a well formed cross, while the pistils looked like a crown set over the cross. This flower is supposed to be identical with the 'Passion Flower' of legendary fame, and emblematic of Christ in his relation to Christianity."

ROYAL HEATERS
TRADE MARK
UTICA, N.Y.



HOT WATER, STEAM.

The right kind of Boilers for Greenhouses.

HART & CROUSE,

UTICA, N. Y.

Victory! Victory! Victory!

The only Certificate of Merit awarded for ventilating apparatus at the St. Louis Convention was to the

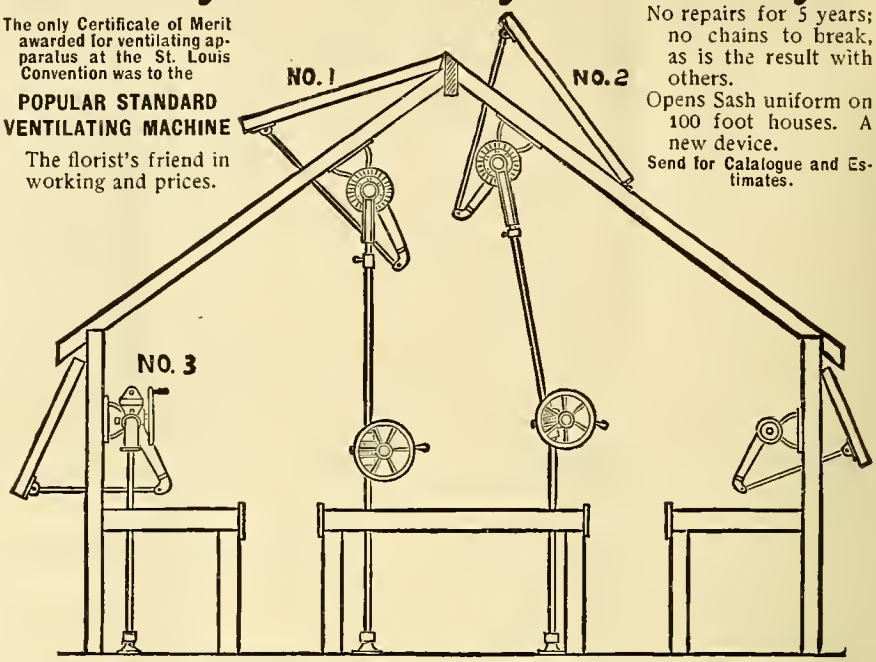
POPULAR STANDARD VENTILATING MACHINE

The florist's friend in working and prices.

No repairs for 5 years; no chains to break, as is the result with others.

Opens Sash uniform on 100 foot houses. A new device.

Send for Calalogue and Estimates.



E. HIPPARD, YOUNGSTOWN, OHIO.

"God helps those who help themselves." And he who uses THE "NEW DEPARTURE"



(MEAT SAW)

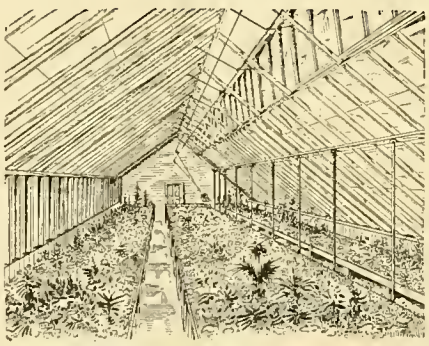
VENTILATING APPLIANCE

helps himself and those who help him in his labors, and is therefore doubly blessed. Send for price and description.

J. D. CARMODY, Evansville, Ind.

Or call and see the man and machine at his greenhouse office, located on the lawn west front of Horticultural Building, World's Fair grounds, Chicago, Ill.

THE CHAMPION



Automatic Ventilator

The cheapest, easiest to operate, and by far the best machine in the market. Don't buy a Ventilator until you have seen my illustrated descriptive circular, which will be sent you free, giving prices, etc. Also Champion Soil Pulverizer and Sifter.

Address, Box 114. E. E. WOLF, SPRINGFIELD, O.

HAIL LOCK THE DOOR BEFORE THE HORSE IS STOLEN. DO IT NOW.

JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

When writing to any of the advertisers on this page please mention the American Florist.



SCOLLAY'S IMPROVED PUTTY BULB,

For Glazing Sash, Etc.

— ALSO THE —

Patent Plant Sprinkler

For sale by your Seedsman, or sent, postpaid, for $1.00.

JOHN A. SCOLLAY,

74 & 76 Myrtle Ave., BROOKLYN, N. Y.

Send Stamp for Catalogue.

EVANS' IMPROVED

CHALLENGE VENTILATING APPARATUS

Write for Illustrated Catalogue.

QUAKER CITY MACHINE WORKS, Richmond, Ind.

Send orders for . . .

CLEAR CYPRESS

Greenhouse Material

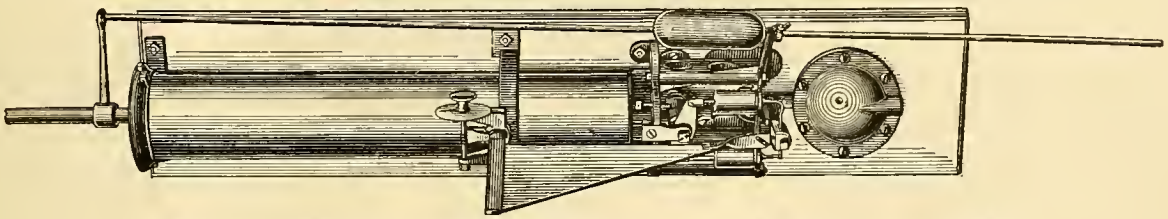
from bottom of gutter up.

Correspondence solicited. Estimates cheerfully furnished.

LYMAN FELHEIM, ERIE, PA.

Automatic Ventilaton a Practical Reality.

The Chadborn Automatic Hydraulic Ventilator maintains an even temperature under all conditions. Its operation is controlled entirely by temperature. Opens Ventilators any heighth and with any speed desired. Maintains temperature at any point, from freezing to 100 degrees. Costs absolutely nothing to operate. Is simple and durable in construction. Makes a handsome ornament in any house. Dispenses with all labor. Is guaranteed to do the work or machine removed. Considering its many advantages it is the cheapest device on the market.



READ THE FOLLOWING AND JUDGE FOR YOURSELF IF OUR CLAIMS ARE WELL FOUNDED:

NEWBURGH, N. Y., April 25, 1893.

MESSRS. CHADBORN-KENNEDY & CO., Fishkill, N. Y.

GENTLEMEN:—Replying to your inquiry in reference to the **Chadborn Automatic Ventilator,** of which I have 10 in use in my greenhouses to test their merits, I must say they have given me much pleasure in noting their workings—not having to *worry about the ventilation*, so as to have it done at the proper time, which is most essential to roses, because any overheating causes a fictitious growth, bringing on mildew; and this machine is there on duty always at the proper time, so that my roses were never in as good, healthy and vigorous condition, and clear from mildew as at the present time, April 25th, when mildew will usually make its appearance. But there is not a spot in all my greenhouses where this Automatic Ventilator is working. So, after this experience, I want more of your machines as soon as you can put them in, because they are labor saving, and always ready to do the work.

Very truly yours, F. J. A. SCHAEFER.

☞ **A postal card to our address will insure prompt attention and bring full particulars.**

CHADBORN-KENNEDY MF'G CO.,

FISHKILL-ON-HUDSON, N. Y.

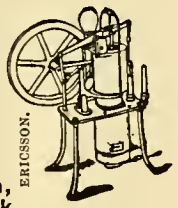
WATER

For Your GREEN HOUSE, ROSE HOUSE, NURSERY,

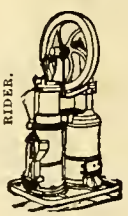
Conservatory, Lawn, House, Garden, Stock or any other purpose.

Send for Illustrated Catalogue OF THE

DE LAMATER-RIDER AND DE LAMATER-ERICSSON PUMPING ENGINE.



HOT-AIR PUMPING ENGINE.



Their operation is so simple and safe that a child can run them. They will pump water from shallow streams or any kind of well. They can be arranged for any kind of fuel. Capacity 1,500 to 30,000 gallons of water a day, according to size.

The De Lamater Iron Works,
87 South Fifth Avenue,
NEW YORK, N. Y.

J. N. STRUCK & BRO.

Manufacturers of

• CYPRESS •
Greenhouse Material,

LOUISVILLE, KY.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO,

NATURAL GAS MADE GLASS

FOR GREENHOUSES.

Write for latest prices.

D. H. ROBERTS,

159 and 161 S. Fifth Avenue, - NEW YORK,

NATURAL GAS MADE GLASS,

FOR ROSE HOUSES, CONSERVATORIES, ETC., ETC.

☞ Look at our WORLD'S FAIR EXHIBIT in Horticultural Building.

FRENCH GLASS For CONSERVATORIES, ROSE HOUSES, Etc. Etc.

VANHORNE, GRIFFEN & CO.,

Importers of PLATE and WINDOW GLASS. Manufacturers of BENT GLASS and FRENCH MIRRORS.

131-133-135-137 FRANKLIN STREET, NEW YORK.

Note—Imported Glass is used in the best grade of Greenhouse building



Pat. 1882, '85, '86, '88, '90, '91.

FOR WATER, AIR, STEAM, ACIDS, OILS, LIQUORS, GAS, SUCTION,

And for any and every purpose for which a hose can be applied.

Sizes, ⅛-inch to 42 inches diameter.

The making, vending or use of any Serviceable Armored Wire Bound Hose not of our manufacture is an infringement on one or more of our Patents. The rights secured to us render each individual dealer or user responsible for such unlawful use with all the consequences thereof. For prices and discounts address **WATERBURY RUBBER CO.,** Sole Mf'rs and Owners of all the *Sphincter Grip Armored Hose Patents*, 49 Warren Street, New York

J. C. VAUGHAN, Agent, CHICAGO.

Index to Advertisers.

Abel C C & Co.....223
Adv. Rates, etc.....218
American Boiler Co....228
American Road Mach Co.....225
Andorra Nurseries.....223
Austin Will.....220
Baller F A 223
Barnard W W & Co....221
Bayersdorfer H & Co..222
Berger H H & Co.....221
Boehmer L & Co.....223
Bonsall Jos E & Son...219
Boston Letter Co 222
Brauer & Richter.... 220
Brown & Canfield.. ...217
Buist Robert Jr.....220
Burki Fred.....217
Burns & Raynor.....219
Burrow J G.....223
Burton John..... 217
Carman R W.....225
Carmody J D.....226
Chadborn Kennedy Mfg Co.....227
Chandlee Geo H.....224
Chicago Cut Flower Ex218
Corbrey T J.....218 219
Creighton Geo.....220
Deamud J B & Co..217 219
De Lamater Iron Wks.227
De Witt P M..... ..222
Dillon J L.....217
Dreer H A.....221
Elliott W H.....218
Ellison Wm.....218
Ely Z De Forest & Co..221
Evenden Bros 217
Felheim Lyman.....226
Forstermann I. 223
Gardening Co The.....225
Gibson J C.....223
Gonzalez & Co..... .221
Goodyear Rubber Store 228
Griffith N S..... 217
Guillaume Louis A... 217
Gurney Heater Co.....228
Hall Ass'n.....226
Hancock Geo 217
Hart James.....219
Hart Michael A.....219
Hart & Crouse.....226
Hartford H E.....219
Hatch Edw..... .222
Hatcher John C 222
Herr Albert M.....220
Hews A H & Co.....224
Hilfinger Bros.....224
Hill E G & Co.... 223
Hippard E.....226
Hitchings & Co.....228
Hooker H M Co.....227
Horan Edw C.....219
Hulsebosch Bros.....221
Hunt E H..... 219
Hunt M A.....217 225
Hunter Frank D.....219
Huntington Seed Co...222
Jennings E B.....217
Joosten C H.....221
Jordan Floral Co.....217
Kemble Floral Co.....217
Kennicott Bros.....219
Krick W C.....222
Kroeschell Bros 224
Kuehn C A.....218
Laing John & Sons. .. 220
Lake Geneva Floral Co220
La Roche & Stahl.....218
Lockland Lumber Co...224
Long Dan'l B.....219
Lonsdale Edwin.....221
Lord & Burnham Co...228
McCarthy N F & Co....219
McFarland J H.....217
McFarland J H Co.....225
Manz J & Co.....222
Marschuetz & Co.....222
Meyer John C & Co ...221
Michel Plant & Bulb Co 221
Millang Bros.....219
Moffatt G J.....221
Moninger Jno C ...228
Niles Centre Floral Co.219
Ouwerkerk P.....222
Parmenter Mfg Co.....224
Peck & Sutherland.....219
Pennock C J 216
Pennock Sam'l S.....218
Pierson F R Co.....218 221
Pillsbury I L.....217
Pittsburg Clay Mfg Co.224
Quaker City Mach Co..226
Randall A L 219
Reck John 223
Reed Glass Co.....225
Reed & Keller.... 222
Roberts D H.....227
Roehrs Theo..... 219
Rolker A & Sons....220 222
Sander & Co. 223
Savacool A K..... 225
Schofield D C & Co.....224
Scollay John A. 226
Scott Alex.....222
Sebire P & Sons 223
Shelmire W R.....217
Sheridan W F.....219
Sherwood Hall Nur Co.220
Siebrecht & Wadley....223
Situations, wants.....216
Smith H Floral Co.....216
Smith Nathan & Son...216
Spooner Wm H..... ..217
Starr Chas T.....217
Stewart W J Sec'y.....223
Stott Garden Imp Co...225
Struck J N & Bro.....227
Sunderbruch H L.....219
Swayne Edward..... 217
Syracuse Pottery Co ..224
Taplin S..... 221
Tonner John P.....218 220
Tricker Wm..... 223
Van Horne Griffen & Co 227
Vaughan J C..... 220
Vick & Hill.....216
Waterbury Rubber Co.227
Watson G C.....221
Weathered's Sons T W.228
Welch Bros.....219
Whilldin Pot Co ..224
Whitehead Geo B.....217
Wight W P..... 225
Wisconsin Flower Ex..218
Wittbold George.....222
Wolf E E 226
Wood Bros.....217
Young John.....219

DELLE PIANTE NELLE ABITAZIONI is the title of an Italian work recently received, devoted to commercial floriculture and horticulture, including flowers for cutting, decorative plants, and also fruit. It is neatly bound in paper, and contains 72 illustrations. It is issued by G. Roda & Son, of Turin, who have sent out a number of other horticultural books.

CYPRESS GREEN HOUSE MATERIAL

CLEAR CYPRESS SASH BARS

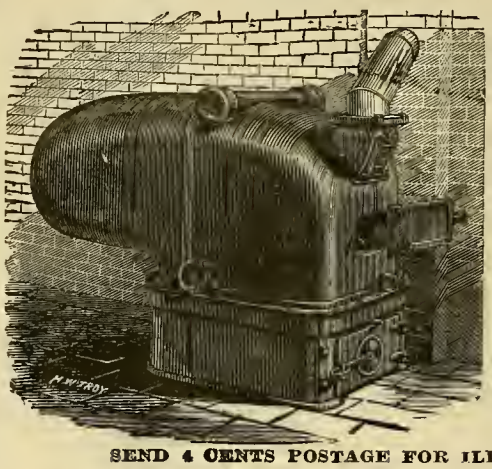
HOT BED AND VENTILATING SASH



JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

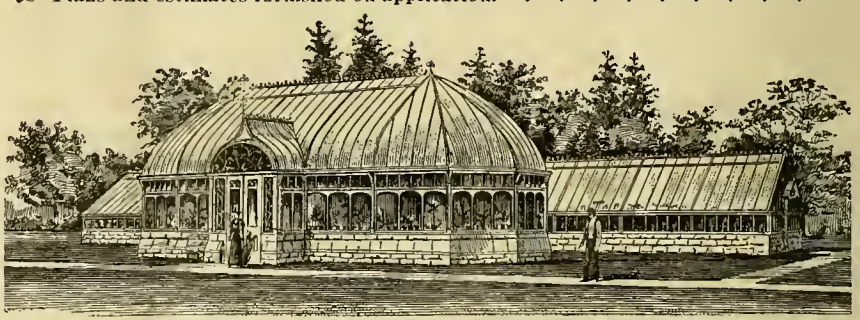
Mention American Florist.

GREENHOUSE HEATING AND VENTILATING
Horticultural Architecture and Building.



HITCHINGS & CO.
Established 1844.
233 Mercer St., New York.
FIVE PATTERNS OF BOILERS.
NINTEEN SIZES.
Perfect Sash Raising Apparatus.
Rosehouses, Greenhouses, Etc, of Iron Frame Construction, Erected complete, or the Structural Iron Work shipped ready for erection.
Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Top.
SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.

LORD & BURNHAM CO.
Horticultural Architects and Builders,
STEAM AND HOT WATER HEATING ENGINEERS.
☞ Plans and estimates furnished on application.



Front view of a portion of our exhibit at the World's Fair.
. . . SEND FOUR CENTS POSTAGE FOR ILLUSTRATED CATALOGUE. . . .
LORD & BURNHAM CO., Irvington-on-Hudson, N. Y.

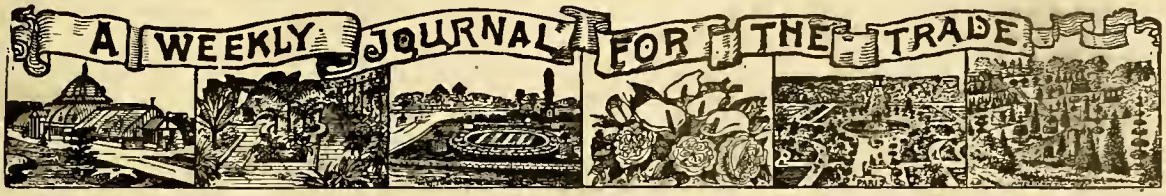
STEAM · AND · HOT · WATER · HEATERS
FOR
GREENHOUSE HEATING
156
DIFFERENT SIZES.
American Boiler Company.
BOSTON, 195 Ft. Hill Square. NEW YORK, 94 Center St. CHICAGO, 34-36 Dearborn St. DENVER, Mining Exchange Bldg. SAN FRANCISCO. 80 Crocker Bldg.

THOS. W. WEATHERED'S SONS,
INCORPORATED.
Horticultural Architects and Hot Water Engineers
Send for Catalogue, enclosing 4 cents in stamps.
No. 244 Canal St., NEW YORK CITY.

FLORISTS' HOSE,
Made by E. W. Holt, member of the Society of American Florists.
Goodyear Rubber Store,
2 W. 14TH ST. NEW YORK.

GURNEY Hot-Water Heaters FOR Greenhouses.
Send for a copy of our book "How best to heat our houses."
GURNEY HOT-WATER HEATER CO.
163 FRANKLIN ST., BOSTON.
Branch Office: 59 Wabash Avenue, Chicago, Illinois. Selling Agencies: Johnson & Co., 71 John St., New York City. J. C. F. Trachsel, 246 Arch St., Philadelphia

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. IX **CHICAGO AND NEW YORK, OCTOBER 19, 1893.** **No. 281**

THE AMERICAN FLORIST

Copyright 1893, by American Florist Company. Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.
322 Dearborn Street, Chicago.

Subscription, $1.00 a year. To Europe, $2.00.

Address all communications to

AMERICAN FLORIST COMPANY,
P. O. Drawer 164, CHICAGO.
Eastern Office: 67 Bromfield St., Boston.

SOCIETY OF AMERICAN FLORISTS.

WM. R. SMITH Washington, D. C., president; PROF. WM. TRELEASE, St. Louis, Mo., vice-president; WM. J. STEWART, 67 Bromfield St Boston, Mass, secretary; M. A. HUNT, Terre Haute, Ind., treasurer.

The new officers, to be installed Jan. 1, 1894, are: J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; secretary and treasurer the same as for 1893. The next annual meeting will be held at Atlantic City, N. J., August, 1894.

CONTENTS.

A grand exhibition 229
Carnations—Notes 230
Chrysanthemums—Seasonable hints. 230
Davallia Mooreana (illus) 230
Dracænas 230
Miscellaneous seasonable hints 232
Orchids—Florists' orchids 232
Insects injurious to aquatics 232
Davallia Fijiens's (illus) 233
A promising vine 233
Greenhouse construction (illus) 234
Nephrolepis exaltata (illus) 234
Philadelphia 234
New York 235
Buffalo 235
Cincinnati 236
St. Louis 236
Chicago 236
The World's Fair 236
New chrysanthemum Mrs. E. G. Hill (illus) . . 237
Elevating the profession 238
Florists' supplies 238
News notes 239
Foreign notes 239
Feeding anthuriums and alocasias 239
Clematis 239
Chrysanthemum shows 240
The seed trade 242
Louisville, Ky 242
Indianapolis 244
St. Paul 246
Baltimore 248
Toronto 250

Society of American Florists.

The annual report of the Society of American Florists for 1893 containing the proceedings at the St. Louis convention in full, is now ready and will be mailed to all members whose dues for 1893 are paid. W. J. STEWART, Sec'y.

WHEN SENDING us newspapers containing items you wish us to note please do not fail to distinctly mark the item so it can be easily found, as we can not spare the time to hunt through the mass of papers sent us for unmarked items.

PLEASE WRITE on your printed letter head when addressing our advertisers. If you have no printed letter head, then enclose your business card or bill head.

A GRAND EXHIBITION

WORLD'S FAIR CHRYSANTHEMUM SHOW,

NOVEMBER 4 TO 12,

IN HORTICULTURAL BUILDING AT THE GREAT EXPOSITION.

$6,000 IN CASH PREMIUMS AND 40 WORLD'S FAIR MEDALS TO BE AWARDED.

World's Fair to be Open during November and the Chrysanthemum Show to be a Special Attraction.

Arrangements have finally been perfected for a grand chrysanthemum show at the World's Fair November 4 to 12. The exhibition will be held in the great Horticultural Building and the judges will award $6,000 in cash prizes in addition to 40 medals of the World's Columbian Exposition.

It has been decided to keep the Exposition open during the first half of November and to make the chrysanthemum show a great special attraction during that time.

The management of the show will be in the hands of a committee of the Horticultural Society of Chicago, which will abandon its own projected exhibition, and a general committee consisting of Messrs. Robert Craig, Philadelphia; James Dean, New York; and E. G. Hill, Richmond, Ind.

The judges will be Messrs. E. A. Wood, West Newton, Mass.; Edwin Lonsdale, Philadelphia; and J. A. Pettigrew, Chicago.

While chrysanthemums will of course be the great feature, prizes will also be offered for roses, carnations, orchids and other specialties, and it is proposed to make the exhibition the most complete floral show ever held in America.

The crowds at the Fair now average over 200,000 a day, and as the railroads will make further special reductions in rates in case the Fair is held open after November 1, it is believed that the attendance during that month will be enormous. An extra fee of 25 cents will be charged for admission to the chrysanthemum show.

The American Chrysanthemum Society has been invited to act with the management and it is probable that that society will award certificates of merit to new varieties shown and that are deemed worthy by the judges of such distinction.

The premium list will be printed and issued in a few days. Among the leading cash premiums are the following: 50 blooms, one variety, white, $50, $35 and $25; the same for 50 blooms of yellow, pink, crimson, bronze and any other color; best 48 varieties, one flower of each, $50, $40 and $25, half of these amounts for best 24 varieties; best 12 vases, 6 flowers of one variety in each vase, $50, $40 and $30; the same for best 6 vases, 12 flowers of one variety in each vase; 50 varieties cut flowers, 3 blooms of each variety, in vases, $150, $100 and $75; 6 specimen plants, $100, $75, $50; 3 specimen plants, $50, $35, $25; and $20, $15 and $10 for specimen plant of white, also for each of yellow, pink and crimson; best group of plants arranged for effect in 150 square feet of space, $75, $60 and $50; best group of yellow varieties in 100 square feet of space, $50, $30 and $20; the same to similar groups of white, pink and crimson; 100 plants, not less than 20 varieties or more than 5 of one variety, grown to single stem and bloom, $100, $75 and $50; 50 plants in 15 varieties ditto, $50 $35 and $25; 50 plants, white, grown to single stem and bloom, $50, $35, $25; the same to 50 plants each of pink, yellow and any other color; 10 standards, distinct varieties, stem not less than 30 inches, $100, $75 and $50; 5 standards ditto, $50, $30, $20; specimen ditto, $25, $15, $10; World's Fair medals to best seedlings, white, yellow, pink, crimson, bronze and any other color; medals to vases of 100 blooms of white, yellow, pink, crimson, bronze and any other color; medals to best single blooms on exhibition of white, yellow, pink and crimson; medal to best 12 blooms, any variety, introduced in 1892; $100 for 12 blooms of best seedling on exhibition not yet disseminated; table decoration $100, $75 and $50, and a host of other prizes equally valuable, including cut roses, etc., and floral arrangements.

The committee from the Horticultural Society of Chicago consists of President W. H. Chadwick, Secretary W. C. Egan, Second Vice-President J. A. Pettigrew and J. T. Anthony. These acting with Messrs. Craig, Dean and Hill, as before noted, form a board of seven directors for the management of the exhibition. Mr. Robert Craig has been elected general manager of the show, W. C. Egan secretary and Henry Holzapfel assistant secretary. Correspondence should be addressed to W. C. Egan, Sec'y, Horticultural Building, World's Fair, Chicago. The premiums are all guaranteed and will be paid in any event.



Carnation Notes.

It is soon time to think of firing up, and don't be afraid to do it. It is "penny wise and pound foolish" to try and save a little coal at this end of the season. Better far let a little heat out at the ventilators than to have the plants chilled and checked just at this time as they are taking proper hold for the winter. None would think of allowing their roses to get chilled, and if they did the result would be a crop of the fungus we call mildew. Now, the carnation is not quite so tender as the rose, but the effects of the chill are there even if we can not see them at once.

If you are using steam run one pipe to a house, and if hot water make just enough heat to keep the temperature about 50°, at least not over 55°. Rather than have over the latter figure put on a little ventilation, but make it as little as you can, for the night air is not a desirable element in the houses after October 15. It is to be hoped that the automatic ventilator exhibited at St. Louis will prove practical; it would be quite a boon to be able to retire and know that your houses were in as good hands as such a machine would be.

To keep my houses at an even temperature I am using three thermostats, a four cell battery, an electric bell in my bedroom and some 800 feet of covered wire, costing, put up, about $27. The whole outfit can be bought at almost any electric supply house and put up by any one who knows the first principles of electricity. These thermostats are set to ring an alarm with a variation of seven degrees in the temperature of the houses and have saved their cost ten times over in the health of the plants. They also compel the night man to do his duty, for if he did not they would report him better than any time registering arrangement possibly could. Where you depend on a man waking up at a certain time to tend the fires they are especially desirable, and no one will ever regret putting them in. Of course where the distance is not so great from house to greenhouse the cost will be considerable less.

Regarding a night man, every plant of 12,000 to 15,000 feet of glass or over should be able to employ one. In addition to tending the fires and making a round of the houses three or four times every night there is always enough work for him to put in the balance of his time. Making boxes, taking up cuttings, potting off plants or a hundred and one other things that can be nicely done after night. Do not employ the cheapest man you can find, but the best your place will afford; it does not pay to have a man who does not know how to tend a fire or who only thinks of putting in the time with as little work as possible until quitting hour comes. Such men are an encumbrance to any man's business and the quicker they are discharged the better. On the contrary if you see that you have a good man treat him like a man, let him know that his interest in your welfare is appreciated and pay him what your business will afford.

These remarks apply to all employed labor, and while not exactly carnation notes they are applicable to a few of the places I have visited, and will bear a thought or two at the present time. One word more about the night man. I work mine from 6 p. m. to 6 a. m., and he always has enough to keep him busy excepting from midnight on Saturday until midnight on Sunday, during which time he has nothing to do but attend the fires and in the intervals he has access to horticultural journals, a novel if he chooses and the Sunday papers, also a few good cigars, but never anything to drink. I pay him what I feel able and we are both satisfied with the bargain.

Carnations should be staked as soon as possible after planting them. Some growers do not stake their plants, but this is a mistaken idea, as the competition we have to contend with compels us to produce a fine flower on a good long straight stem, and to get these results staking is a necessity. There are as many methods of staking as there are states in the Union. Last season I placed a stake in front of the plant next the path, one at the back of the last in the row and a stake between every two plants in the row. The string was then tied around the two stakes enclosing the plant between them, holding it upright without drawing it together tightly. This method was very satisfactory, all but the stakes, which, being wood, rotted off before the season was over. This time I am using iron stakes placed one at each end of the row and a No. 18 galvanized wire stretched through the center of the row and the plants tied loosely to it. This makes a very neat job and up to date I am well pleased with it.

As the plants start to grow the weeds will make their appearance, and it is well to remember the scriptural injunction that "cleanliness is next to godliness." Keep the weeds out, stir the soil and let it dry off pretty well before watering, as the sun will help to keep it sweet and healthy. It may seem like a big job to attempt to do this every three weeks, but it will pay, and like some more things is not such an awful job if you get at it and do it.

Now is the time to begin making notes as to how the different varieties are behaving themselves and their money value to you for another season. A careful record and comparison may have some surprises in store for you.

ALBERT M. HERR.



Seasonable Hints.

Many of the large flowering varieties will soon be at their best, and should they be wanted for exhibition cut two or three days before they are fully developed and store in a dry cool cellar. By giving them fresh water every second or third day, and at the same time cutting off a little of the stem they can be kept in good condition for three weeks or more, in fact they will be greatly improved after a few days of this treatment. The dark varieties are apt to fade when unprotected from the direct rays of the sun, so it will be necessary to give a little shading to these to ensure the best color. Light muslin, wax paper, or if the houses are kept dry tissue paper can be used for shading.

As fast as the flowers open keep a lookout for plants incorrectly labeled, and O. K. those that are right; by so doing you will be certain to have stock plants true to name. While the new varieties are not so likely to be mislabeled yet it is best to see that they compare with the descriptions.

Blooms are often sent the principal growers either for naming when the label has been lost, and in seedlings to get his opinion as to their merits. Such blooms often arrive in so poor a condition that the desired information cannot be given. I have received flowers that have been five days in the mail as fresh as though just packed, and again where only a few hours in transit that were spoiled. Whatever the object may be in sending it is always best to send some of the foliage, as it often assists in naming the variety, particularly where they have been grown under unfavorable conditions, and if a little damp moss is tried around the stem, and the whole wrapped in wax paper before placing in the box they will arrive in good condition if delivered in six or eight days. Flowers put in a dry pasteboard box without moss or wrapping are soon past recognition.

ELMER D. SMITH.

Davallia Mooreana.

A strong growing light green stove fern, and if given sufficient room will make a plant thirty feet in circumference. It is almost insect proof, entirely distinct from many others of that family, and is greatly admired for its bold, broad, many cut fronds. D. A.

Dracænas.

Some nice plants of a few species and varieties of dracænas should be included in the stock of the general florist, several of these plants being well adapted both for house plants and also for decorating. Well grown specimens of moderate size are the most useful, very large plants being only suitable for exhibition or for an occasional decoration, beside occupying much valuable space in the houses.

The chief thing needed in the treatment of dracænas to insure success is liberality, these plants being in most cases gross feeders and soon showing neglect in this particular, the checking of growth by lack of nourishment for a time, usually resulting in inferior stock. Short stable manure of good quality, bone dust, soot and guano are all good fertilizers for these plants, but the last three substances named must naturally be used with more caution than is required in the use of stable manure only, but are quicker in action and give excellent results in careful hands.

Drainage of the pots should be good and the soil of open texture and not potted too firmly, while careful syringing during all bright weather is highly beneficial and especially so for the warm house varieties, these being somewhat subject to red spider unless given proper attention in this particular.

Propagation in most instances is effected by means of cuttings from either the stems or roots, though seeds of a few sorts are also to be had. Seedlings of D. indivisa are very easy to procure and are also quite variable in character, as to breadth and coloring of foliage, and in



SPECIMEN DAVALLIA MOOREANA.

large lots variegated forms are not uncommon, one of which has been named in Europe as D. Doucetii.

Of the green leaved dracænas with broad foliage D. fragrans and D. australis are among the best, the latter being more hardy than the former, though possibly not quite so ornamental, and may be used outdoors in summer for bedding out or for planting in vases or boxes with excellent effect. But with Dracæna fragrans, as with many other decorative plants, much depends on the way in which they have been grown as to how much exposure they will stand, and plants that have been reasonably hardened off before they are used will stand quite a good deal, in witness of which I have seen some that had been in frequent use in decorations all through last winter, and in the spring their color was still good, even though the leaves were much bruised and battered from frequent handling.

Of Dracæna indivisa it is not necessary to say much just now, from the fact that its virtues are quite well known and appreciated, both for decorating and also for outdoor use, while its ready adaptability to varying conditions of temperature make it what may be safely termed an all around useful plant. Dracæna stricta congesta, commonly known as D. congesta, is another species of strong constitution and considerable beauty, and serves admirably as a house plant. The leaves of this variety are narrow, dark green in color and of leathery texture, the stems being very short jointed, thus making a very well furnished plant. This can also be grown in a comparatively low temperature and will withstand the exposures of decorating remarkably well.

D. gracilis is a pretty species of small growth, the leaves of which are quite narrow, bright green with a narrow margin of reddish bronze. This plant is very graceful in habit, easy to grow and useful in a variety of ways and deserves greater popularity.

D. Goldieana is another attractive species, and though not new does not seem to have become common. It has a compact habit and broad leaves that are handsomely variegated with a marbling of dark green and silvery gray. D. Goldieana is not so rapid a grower as some of the other species and requires warm house treatment to insure its welfare.

The variegated forms of D. fragrans are also handsome when in good condition, but the variegation is apt to become faded in the older leaves, and they are possibly slightly more tender than the type, so can hardly be recommended very highly to the trade in general.

D. terminalis and D. terminalis stricta are among the best of the high colored section of these plants, and are truly brilliant when in good condition, the color showing while the plants are quite small and continuing during the active growth of the plant, or rather being more prominent on the young leaves. The ease with which these and also D. fragrans can be secured from the imported stems that are frequently in the market makes it a very simple operation to raise a stock, and it is better to get up a new stock each season than to carry over old plants, and there will thus be less risk of having unhealthy or vermin infested plants.

D. amabilis and D. Guilfoylei are good examples of the light colored types, the young leaves of the former being more or less marked with white and sometimes tinted with pink, while those of the latter are striped and blotched with white and the margins usually pink, making a most attractive combination.

W. H. TAPLIN.

Please mention the AMERICAN FLORIST every time you write to an advertiser.

Miscellaneous Seasonable Hints.

It is about time now to give the earliest cinerarias their last shift, which with me is a standard 6-inch. Don't use sifted soil, rather let it be coarse and lumpy with plenty (a fourth) of good rotten manure. Remember that Cinerarias thrive in a very cool temperature but won't endure the slightest frost, and to do well must have the very lightest bench you have. There are few plants more troubled with aphis than cinerarias and in addition to regular weekly fumigation it will pay to spread fresh tobacco stems between the pots at short intervals. They need spreading out as their broad leaves begin to spread, and each time add some fresh tobacco. In many places you see cinerarias going off one by one, and it is attributed to a disease. In most cases it is I believe nothing but over watering. The cineraria is a cheap common plant, but to do it well requires the use of as much brains as it does to cultivate an orchid or the finest palm. They will not endure too wet a soil; once they droop with overwatering it is all over with them, and if too dry they droop their leaves but will recover with loss of a few leaves, so be most careful in watering them.

The earliest primroses will now take their flowering pot. With good sized plants it should be a standard 5-inch. Drain with a crock and piece of green moss. A light house with a night temperature of 50° is about right for them. Use a good light loam with one-third of leaf mould (not swamp muck) and a little sand added to it. I notice in some places that the primulas have to be supported with a small stick or brace upon each with a toothpick inserted in the soil. This is not necessary if they are potted sufficiently deep at their last shift. Pot them deep enough so that their crown is well firmed with soil and they won't need any support, and they will send out roots from the collar which will be a help to them in their latter days.

Just as soon as you begin to fire steady and the sand in the propagating bed is warm put in Begonia rex cuttings, if pieces of the leaf can be called cuttings. If you don't get these begonias rooted early you won't have plants large enough to be useful next May.

Until you begin to get rid of chrysanthemums you won't have bench room for much of your Easter lily stock, and they have to remain in a cold frame, where they are doing all right for a long time yet; but keep them covered with sash or they will get too much water on many occasions. Those you are forcing for winter should now be a foot or more above the pot, and will now stand a temperature of 65° or 70° at night and warmer of course with sun heat.

Mignonette that was sown in July is now making fine spikes. It pays to take off all the side shoots down for a distance of 10 to 12 inches from the flower; below that leave them for future spikes. If you don't rub off these side shoots they much retard the development of the leading flower.

There is not so great a profit in paper white narcissus of late years, but the grandiflora type is fine and always useful, and at Christmas pays well. You may find a use for some earlier than that, but save the bulk of them for the holidays. Don't treat them at all as you would a tulip at that time of year, high temperature and shade, but keep them in a cool light house and bring them along slowly. They will then shove up their fine flowers above the leaves. If forced in a high temperature and a shady corner leaves will be the principal crop.

Roman hyacinths can be had from November 1 on, and the earliest require plenty of heat.

Show pelargoniums that were struck in August should now be sturdy little plants and will soon want to go into a 4-inch pot, in which they will remain for the winter; and remember the best place for them is a very light bench or shelf. A low temperature (40° to 45°) at night is plenty and a very moderate amount of water until they start to grow rapidly, which won't be until the end of February or early in March.

For the next few weeks is the time to do any transplanting or dividing of your herbaceous plants, such as pæonies, delphiniums, etc., and as winter comes they will be much benefited by a covering of leaves or litter of some sort. You have in clearing up destroyed the natural covering of these plants and must restore it in some way. WM. SCOTT.

Buffalo, October 16.



Florists' Orchids.

By florists' orchids are meant such varieties as are of easy cultivation and free flowering, such as can be grown in an ordinary plant house. Of course the vandas, ærides, saccolabiums and many of the dendrobiums are of no use to the average florist, as the high price at which the plants are held makes it impossible to cut enough flowers from them to pay interest on the investment. But you can always use to advantage the flowers of many of the cattleyas, dendrobiums, cypripediums and odontoglossums for they are all flowers that will keep; if you cannot use them this week you can keep them till next or the week after. Ten years ago there were a few orchid flowers to be had in the best florist stores in New York; now you can get them as regularly as roses from any wholesale dealer in cut flowers.

If you want orchids for cut flowers get good strong plants to start with, and give the plants a show. Orchids can stand a lot of abuse, but cannot, as many florists seem to think, take care of themselves. For the majority of florists' orchids you do not need, as many think, a special house, but you can grow them well in a shaded plant house such as you have your palms in, where the night temperature averages about 60°. Most of the odontoglossums can be grown in much lower temperature than that.

Cypripedium insigne is one of the best of all florists' orchids, as it is in flower about mid winter and is one of the easiest to grow, thriving in an ordinary greenhouse. Give them plenty of water in growing season, and never let them get too dry at the roots. They must have liberal drainage in the pots, and do best in a mixture of fibrous loam and peat, but where you have no peat do well in fibrous loam alone.

Dendrobiums are another free flowering species, of which D. nobile is the best for florists' use; although there are others as free flowering as nobile it is the best all around variety. Dendrobium nobile does well either in pots or baskets, given good drainage and potted in fibrous peat and chopped sphagnum moss. When growing they should have plenty of moisture both at foliage and roots, but when done growing should have more air and only water enough to keep growths from shriveling, for it is necessary to have the growths well ripened to insure good flowers.

Cattleyas are among the grandest and showiest of all orchids, and of easy growth. C. Trianæ and its numerous varieties are the best for florists, as it is a winter bloomer. In a batch of plants imported from the same locality no two will be alike, the shades of color vary so, but are all worthy of cultivation. C. Mossiæ and its varieties are fine, but are summer flowering. C. labiata when true is a grand florists' orchid, and blooms early, in fact before C. Trianæ. Cattleyas do best in pots or baskets potted in fibrous peat, elevated about an inch above the edge of pot, so that there is no danger of water at the crown. When in growth, and they usually commence to grow as soon as done flowering, they should be kept moist, not wet, and when done growing give plenty of air, avoiding cold drafts, and keep dry to ripen the growth, but not so dry as to allow the growth to shrivel.

The lælias are useful and easily grown orchids. L. anceps and L. autumnalis are among the most useful and easiest grown species. L. anceps does best with the same treatment as the cattleyas, while autumnalis does best on blocks, and does not require as much heat as some of the other varieties.

Cœlogyne cristata is one of the handsomest cool house orchids grown, and its delicate white flowers are very useful. It does best in pots in peat and moss; give good drainage and plenty of water in the growing season, but keep water off the flowers, or they spot and go black. Lycaste Skinneri and its varieties are grand florists' orchids, and of easy growth, and they can be grown in a cool house. Grow in peat in pots with good drainage and when in growth give a liberal supply of water; in fact they should never be allowed to get dry at the root even when at rest. There are a great many other varieties of orchids that are of easy growth, but the varieties I have named are amongst the most useful for the florist and of easy cultivation and free flowering. When purchasing orchids remember the best are the cheapest, and do not buy weak little plants because they are offered at a low price, but get good plants. They are cheap enough now, buy them from a responsible firm, and they will give you much pleasure as well as profit. If you have had no experience in orchids buy established plants, but if a judge of them you can do best by buying unestablished freshly imported plants. JAS. S. TAPLIN.

Madison, N. J.

Insects Injurious to Aquatics.

ED. AM. FLORIST:—A week or two ago, in the FLORIST, you referred to the damage done to the nymphæas and nelumbiums in Lincoln Park by a couple of insect pests, and promised your readers should know the result of an appeal to Prof. Riley for knowledge of ways and means of fighting them; enclosed you will find reply by L. O. Howard, acting entomologist in the absence of Prof. Riley.

Our remedy in the case of the nelumbium pest has been to hand pick, but too often the fellow had already bored himself out of sight and injured the leaf stem; and for



SPECIMEN DAVALLIA FIJIENSIS.

fear of poisoning the fishes, we hesitated using arsenical preparations on the nymphæas, though we used tobacco powder with partial success. Some of your readers may have experienced the trouble, and may be able to offer suggestions of value. J. A. PETTIGREW, Supt.

Chicago, October 13.

J. A. PETTIGREW, ESQ., SUPERINTENDENT LINCOLN PARK, CHICAGO—*Dear Sir:* In the absence of Prof. Riley I beg to acknowledge the receipt of yours of 4th instant, together with accompanying specimens. The sending proves to be a very interesting one. I am unable to find any reference in the division of either insect sent. One is a Tortricid lepidopterous miner and the other is a dipterous larva. The latter is the one which mines the surface of leaves and while a few of the larvæ were living when received we have so far been unable to breed anything from them and cannot determine the species from the larvæ alone, as little is known of the early stages of these insects. We shall endeavor to rear both the larvæ and the dipterous insect, and it may be that we can suggest remedies when the full life history has been worked out.

L. O. HOWARD, Acting Entomologist.

Washington, October 10.

Davallia Fijiensis.

When seen from a distance this grand fern has more of the appearance of a filmy fern than a davallia. It is as dark green and as gracefully formed in the frond as Todea superba, although of different habit. It requires a warm, shady house to grow it well. Both the fine specimens of davallia shown in our illustrations were grown by Wm. Martin, gardener to N. T. Kidder, Milton, Mass., and for the latter species he was awarded a silver medal. D. A.

A Promising Vine.

While on a visit to the nurseries of Mr. M. Cook I was very much interested in a white flowering vine which I saw growing there. It grows most luxuriantly and for freedom of blooming cannot be beaten. Mr. Cook has been cutting abundantly from it for the last two months, and it gives every promise of continuing so until cut by the frost. For store work, designs, etc., it has no equal, and I predict a great future for it when once it becomes known in the north. Trained over the rafters of a house I have no doubt it would bloom all winter. I enclose a spray for your inspection and would be pleased if you could give us the name of it. It reminds one of a dioscorea; it has roots just like a sweet potato. The flowers last a long time when cut. It was given to Mr. Cook by a lady from South America. The more one sees of the flower the better you like it. The vine (as you will see) is a good deal like the Aristolochia elegans, but I feel quite sure it does not belong to that family.

New Orleans, La. HARRY PAPWORTH.

The loose spray of small white flowers was very pretty and they stood the long journey exceedingly well. It would certainly be very useful in cut flower work. Being unable to identify it we sent the specimen to Mr. Wm. Falconer, who writes as follows:

"The name of this little flower is Agdesmia clematidea. It is a native of Mexico and Brazil, and belongs to the poke weed (Phytolaccaceæ) family of plants. It is an almost unknown plant in cultivation."

THE REPORT of the St. Louis park commissioner for the year ending April 11, 1893, recently received at this office, gives a full account of the various improvements in the parks of that city, and is attractively illustrated.

Greenhouse Construction.

Evenden Bros., of Williamsport, Pa., have been kept busy during the past summer, in enlarging their greenhouse establishment by the addition of two 18 foot three-quarter span rose houses, with a propagating house at the back, and a violet pit at the front of each, also an 18 foot even-span carnation house. All the houses are 110 feet long, and as there may be some points in their construction of interest to your readers I send you a sketch of a cross section showing the arrangement of one of the blocks.

The woodwork from the posts up is entirely of cypress, drip grooved, cap bars being used, as the glass is butted. In the rose and carnation houses the ridge supports are 1¼-inch pipe screwed into a cap fastened to the ridge; the purlin supports are 1-inch pipe; the purlin is 1-inch pipe run through 1¼-inch tees with an inch outlet to secure the supports. In getting the purlin to its place firmly, a very important matter, a stout nail was partly driven into every eighth sash bar where the purlin was to come; the purlin, all screwed together with the tees for the supports in the places, was lifted to its place and held against the nails by temporary supports, the straps were then put on, one on every fourth bar, the purlin was then pressed upwards so as to slightly curve the sash bars, this greatly strengthens the roof and prevents sagging. The supports were then cut and screwed into place.

Piers for the ridge and purlin supports were made by digging holes about eighteen inches square and eighteen inches deep; these were filled with concrete and a flat stone placed on top. Piers like these are easily and quickly made and make an excellent foundation.

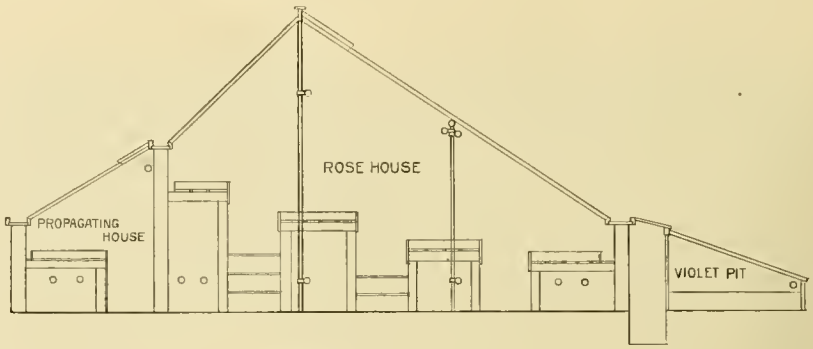
In placing the benches care was taken to keep the back of the side benches clear of any drip that may come from the gutter. This is another very important matter which is sometimes overlooked, for whether the glass is butted or lapped there is always more or less drip in wet weather which should never fall on the benches.

In the propagating houses the space between the back of the bench and the side of the house is covered by loosely fitting boards about four feet long, which can be lifted off on very cold nights or any time when it is necessory to increase the top heat.

The violet pits are covered with six-foot sash; these are hinged to a purlin about fourteen inches from the side of the gutter; the space between the gutter and purlin is boarded, with three-foot ventilators six feet apart; these are also hinged on the purlin; when the sash is lifted in front and the ventilators open there is a thorough circulation of air, which will be very beneficial to the plants in the dull winter days.

The pathway at the back of the pits is very convenient, affording a means of easily picking the flowers, watering and otherwise attending to the plants, no matter how severe the weather.

The heat used is steam, part overhead and part under the benches. There are three overhead 1¼-inch flow pipes, and six return pipes the same size under the benches; one flow pipe feeds two returns. The overhead pipes and also the return pipes under the middle benches are run through hangers, which are slipped on the ridge and purlin supports and held in place by a set screw (*the hangers should be put on the supports before the latter are secured in place.*) These make the best and neatest pipe support I have yet seen.



GREENHOUSE CONSTRUCTION

One point I must not omit mentioning, is that all of the timber in the benches and sides of the houses have been treated to a liberal coat of crude petroleum before being used. This is one of the best preservatives for benches there is. A coat of crude oil applied to a bench once a year will make it last twice as long as one not so treated. J. P. RING.

Nephrolepis exaltata.

A handsome fern, much in use for decorative purposes in warm dwelling houses. It can be increased rapidly by division and in quantity from seed, and will thrive in any porous, well drained soil. It is grand either in pot or basket and its long, drooping, graceful fronds are seen to best advantage when the plant is suspended. The specimen shown in our illustration was grown in two years from a small plant by James Wheeler, gardener to J. H. White, Brookline, Mass., and for it he received a silver medal from the Mass. Horticultural Society. D. A.

Philadelphia.

The van of the chrysanthemum army has appeared with Mme. Bergmann leading, closely followed by Kate Brown and Gloriosum. R. Scott & Son were first in the market on the 10th with Mme. Bergmann, a good medium sized white; they brought $2 per dozen. Kate Brown was next on the 12th from Hannum & Co., Wilmington; this is a good medium white. Gloriosum was sent in on the 13th; they were really good flowers raised by Samuel Bunting of 59th and Elmwood avenue. Mr. Bunting is little more than a novice, having been but a short time in the business, but he has beaten out most of the more experienced ones. His flowers brought $2 per dozen. Mr. Heacock began cutting October Beauty on the 14th and brought in some nice disbudded stock with large flowers for this variety; these brought $1.50 a dozen, to which price the others have dropped by this time. Many growers are canvassing the stores for orders for next week and it looks as if the market would be flooded in a very short time.

George Uber is first in with plants in pots, having some good Mme. Bergmann in 8-inch pots in good flower; these brought $1 each.

Mrs. Whilldin and Jessica are both promised for Monday, with Ivory and Mme. Girard a possibility. Although the flowers have been good they have not sold as fast as one would think they should on account of their novelty. Business, however, has not had any snap to it the past week; the weather has been too warm. What is wanted is a killing frost and a few cold days that will make folks think of winter. Roses are very plentiful and job lots are the rule. Some few growers get $4 for selected teas, particularly La France, but the majority are being sold, first choice, at $3. Kaiserin and Meteors bring $5 to $6; Perles, Cusins, Wattevilles, $2; Gontiers, $1 to $1.50; Belles and Beauties, $1.50 to $2 per dozen. Burton is cutting some fine Belles and promises something extra when the weather gets cooler. Lonsdale has very fine Kaiserins and his exhibition mums, it is said, will be in fine shape for the show.

Carnations are continuing to improve and have stiffened a little in price, moving from $1 to $1.25 for the choice. It looks now as if there will be a great abundance of this popular flower the coming season.

All kinds of outside flowers are very plentiful; dahlias are finer and in greater variety than we ever remember seeing them before. Pennock Brothers made quite a show of these flowers in their window the past week. Cosmos can be bought by the wagon load. The African residents who peddle the flora of Jersey on our streets during the summer months have caught on to the cosmos and added it to their assortment, and some seem to be making it their specialty. Market street near 12th is lined with every kind of receptacle from buckets to washtubs and clothes baskets full of this flower. Growers and dealers have asked 50 cents a hundred for it, but now it is almost given away. Valley is plenty at $3 and $4. Violets are selling better, the single variety bringing $3 to $4 per hundred bunches of twenty-five flowers to a bunch. Marie Louise are getting to look like something and sell for 50 cents a hundred. Smilax is plenty at $15; very little asparagus in strings as yet, though good sprays can be had at 50 cents per bunch.

Campbell & Kennedy of Broad street and Germantown avenue have dissolved partnership, Isaac Kennedy withdrawing from the firm, which will be conducted hereafter by Mr. George Campbell. Here is a chance for somebody to get a good foreman, as Mr. Kennedy is anxious for such a place; he is a first class man and not likely to remain long out of a position.

Mr. Harris' fame as a grower of palms, rubbers, etc. has extended all over the country. New York knows him well and after repeated urging he is now going to Boston, where N. F. McCarthy & Co. are to conduct a sale of his products. Boston has the reputation of being a good market for good stock, and Mr. Harris' heart should be gladdened with the returns.

Secretary Farson is about again and able to attend to his duties, having been



SPECIMEN NEPHROLEPIS EXALTATA.

at a meeting of committees at the library Thursday last. He reports prospects for the coming show as good, many entries being made by old exhibitors, as well as quite a number of new ones.

George Craig has become a grower on a small scale, his greatest success being with lycopodium, of which he has grown quite a lot the past summer in pans for table decoration. It seems to have done best in his bulk windows, and when asked by a friend how he accounted for his success he leaned forward and, tapping his pencil on the large pane, he said: "It's all on account of the plate glass."

Z. De Forest Ely is enjoying a well earned vacation in Chicago, where he has been visiting the exhibition the past week.

Thursday night last will not be forgotten for a long time by the bowlers who were fortunate enough to be present at the match between the McLean and Craig teams. The McLean team were not in it—have not been for the past three matches for that matter—and as a consequence new teams were selected, of which W. J. Baker and R. Kift are to be captains. The bright particular event of the evening, however, was the bowling of George Craig, who placed the record of the alleys for the highest single game and the total for three games so far above anything before accomplished as to make the old record of 246, held by George Anderson for a single game, and John Westcott's 595 for a total of three games, both of which have stood for eighteen months, look insignificant. Mr. Craig's score was—first game 169, second 283 and third 202; total 654, an average of 218 to a game. In his big game he started with a spare and then all strikes until the last ball, with which he only secured three pins. The enthusiasm his great score aroused as strike followed strike was enough to have unnerved most players, but George kept his head until the last and was heartily cheered by all present. This score has seldom been equalled on regulation alleys where pins are twelve inches apart. K.

New York.

The week just passed has been an unprecedentedly dull one in the cut flower business. It takes a good many hard knocks to discourage the dealers; generally when they report poor trade their report is coupled with a hopeful prediction of speedy improvement, but in the present instance one can not fail to see that there is widespread anxiety felt regarding the outcome of the coming season, and a deep settled conviction that the craft will require close attention and careful sailing unless all signs fail.

There is quite a supply of chrysanthemums coming in now, and the cut rapidly increasing each day. The prices prevailing in past years for early blooms are not obtainable this year. Prices are already at about the same point as they were in the height of the glut last season. It is impossible to realize over two dollars per dozen at wholesale for the best selected blooms now in the market. While far from equal to the selected flowers that will come later, yet these blooms are real good, and the question suggests itself: If they bring but two dollars now what will they be worth when the main crop appears?

Carnations, roses and violets are all plenty, but buyers are few, and small orders are the rule both locally and for shipment, so that there is an overstock on everything. It ought to be an easy matter to comply with Mr. Dean's request and make Manhattan Day at the World's Fair a most notable one as far as cut flower decorations go, for there is an abundance of everything to spare.

There are some fine blooms of the new rose Mrs. W. C. Whitney being received from J. N. May. In form, color and fragrance it seems to have all that can be desired for a popular market rose.

A. H. Hews & Co. have offered to provide all the vases which the N. Y. Florist Club may require for its monthly exhibitions.

American Gardening, formerly published by the Rural Publishing Co., has been bought by the A. T. De la Mare Printing and Publishing Co.

John Raynor, of Burns & Raynor, celebrated his wooden wedding on Oct. 10.

Prof. Wittmack sailed for Germany this week.

Buffalo.

Two weeks of bright warm weather and a rather dull week's business has made flowers a little too plentiful to be healthy all round. Roses have been in great abundance and surplus lots have been sold very cheap. There is very little outside stuff of any use at this date and a change to more winterly weather will soon shorten up the supply.

On Saturday last Buffalo was visited by the great storm which is no doubt wide in extent and has caused a great loss of life and property. I have not yet heard of any serious loss to greenhouses except that loose glass took its departure for parts unknown.

A very few chrysanthemums are making their appearance in town, but another week will see the "mum" season open in earnest. I hear no growers or retailers but what express themselves as confident that the popularity of the chrysanthemum will be as great as ever. It is sincerely to be hoped it will be here, for there is a big crop to be disposed of.

W. J. Palmer & Son have an immense lot of fine flowers coming in; so has W. Scott, Webb Bros., of Corfu, J. H. Rebstock, C. F. Christensen, G. S. Pickleman and many others in lesser quantities. For the past three weeks W. Scott has been cutting some fine flowers of Deleaux. If well done this useful section could be had in fine shape by the middle of September, and surely must be useful then.

We hear of another store to be started on William street by Mr. John Pickleman, Sr. Trade must be good on that busy east side thoroughfare.

Mr. Fry and Mr. Pridmore, of Rochester gave several of our florists a call last week, chaperoned by D. B. L. A few of our British born florists who have lived here 25 years are just about to become full fledged citizens this week, and look forward to casting their first vote early in November. It would do you good to hear the political talk that emanates from them. They are of more consequence to

the community politically than old men who were born here.

As the time approaches for chrysanthemum shows we hear regrets from many citizens that our city has dropped out, but the great majority of the florists think it was a wise move and a rest of one year may give the public an increased love for such refined exhibits. W. S.

Cincinnati.

The monthly meeting of the Cincinnati Florists' Society was called to order by Pres't Critchell October 14, with the largest attendance that the society has had for months. The special order of business was the incorporation of said society under the laws of the state of Ohio. As our handsome floral market is nearing completion the interest among the members and growers continues to grow, and by the time the building is finished we expect to be in readiness to open same with ceremonies appropriate to the occasion.

At this meeting we had the pleasure of a visit from Mr. E. G. Hill, who brought for exhibition a dozen magnificent blooms of his new chrysanthemum, Mrs. E. G. Hill. This variety is of the Japanese incurved type, a seedling from Puritan, fertilized by Mrs. Hardy. It is pink in color and very early. The flowers measure fully seven to eight inches across. He also had on exhibition a vase of the new white carnation Uncle John, which is also deserving of much praise.

One of our own growers, Mr. Dick Witterstaetter, also had some chrysanthemums on exhibition which were second to none, as follows: Miss Rosa Kupferle, a deep rose pink, shades light, petals standing out and twisted, fine foliage and strong, stiff stem, a cross between Gloriosum and Princess and blooming same time as Gloriosum; The Debutante, a "pure white," same style as Rosa Kupferle, but ready for market fully a week earlier; No. 102, a large fluffy white flower opening with a whorl in center, with the petals falling irregularly. Mr. W. also had on display quite a number of new seedling carnations deserving of special mention, and which will be heard from later.

Mr. Fred Walz, well known through his introduction of the now celebrated Queen, had on exhibition a seedling white chrysanthemum in the way of Mountain of Snow, flower high in center with petals falling to stem; it is certainly an acquisition and will be heard from later; foliage grand, with very stiff stem. He also displayed some very handsome seedling cannas.

Mr. Richard Smith exhibited several pots of new seedling chrysanthemums, consisting of yellow, white and pink flowers. The special one of merit is the yellow incurved variety; the light pink is the same kind of flower. All were good sized and very early.

Mr. Peter Herb had on exhibition his now celebrated carnation, Adelaide Kresken. This is the same carnation that received the first class certificate at St. Louis in August and is a grand pink carnation, being an unusually large flower with stiff stem, no bursting of calyx and fine in every particular.

Taking all in all, we may say that Cincinnati has had the first floral exhibition and display of chrysanthemums for 1893.

The cut flower trade in this city remains unchanged; little doing and plenty of stock to supply all demands.

There will be a special meeting of this society at the store of J. M. McCullough's Sons Saturday evening, Oct. 28. Let every member be present.

E. G. GILLETT, Sec'y.

St. Louis.

During the past week the last regular meeting of the Florists' Club (preceding the chrysanthemum show) was held, and was fairly well attended. The various committees reported progress and several showed evidence of work in the shape of posters, tickets, etc. The report of the committee appointed to procure estimates on the cost of printing and mailing 3,000 announcement cards to parties whose names are taken from the blue book, stirred up considerable discussion regarding profitable methods of advertising. The amount ($50) was approved, however, and the cards will be issued.

Another subject was brought up which has been a stumbling block ever since the shows have been held; it refers to the use of china and glassware in a table decoration. The first year they were allowed, this was not satisfactory, however, and the next year they were allowed under protest as it were, the following footnote being printed with the announcement of the premiums: "The use of expensive china or glassware will not be considered in the decoration." This was also unsatisfactory, and the present year the announcement was made that "the artistic arrangement to be the first consideration and to consist of nothing but plants and flowers." It now appears that this is unsatisfactory, as it will exclude the use of wire frames, moss and many things which enter into the make up, if the wording is to be strictly adhered to, and which it was never meant to exclude. Owing to the absence of several parties who are usually exhibitors in this class the matter was referred to the exhibition committee, who have notified all possible exhibitors to appear before them at their next meeting and see if the matter can not be amicably arranged.

Mr. Carroll showed some fine carnation flowers and adiantum fronds at the meeting, upon which he was complimented; he has most all the newer varieties of carnations, but says the best are all in Dorner's set.

The auction held by the Michel Plant and Bulb Co. of palms and other stock was rather slimly attended. The prices realized upon good stock were fair, but stock that was not in demand for decorating was a drag and went low.

Chrysanthemums have made their appearance, Gloriosum having been received from the south on the 11th and 12th. No white varieties arrived until the 14th. The stock is not extra and sells for 6 cents; a few of much better quality went for 8 and 10 cents at once. R. F. T.

Chicago.

Business is fair and there are but slight changes in prices. Roses have slackened up somewhat, a good many growers being off crop. Carnations are improving, some nice Daybreak and Edna Craig being among the fancies, and there are also good Silver Spray. Cosmos is very limited in quantity. Few good violets are seen from local growers, some of the best coming from outside points.

Chrysanthemums are here, and they will soon be in with a rush. Gloriosum and Domination lead, with a few Ivory and some small whites of mediocre grade. A lot of chrysanthemums are being received from the south, outdoor flowers, but grown to a single stem. They are really good, not specimen blooms, of course, but very fair in quality. Quite a sensation has been caused by the new early pink Mrs. E. G. Hill, grown by E. G. Hill, of Richmond, Ind. A limited number of these flowers has been received this week; they are very much admired, and are really the only good pink now obtainable. The flower is very large, incurved, color when fully open a clear pearly pink. Prices for chrysanthemums so far have ranged from $2 to $4 a dozen, the latter price being obtained for the specimen blooms. Of course it is likely that the price of roses will be affected by the chrysanthemums, but we can not expect to do without these showy autumn flowers, they are part of the trade.

M. Jules Lemoine, superintendent of the Bois de Vincennes, who is in charge of the French horticultural exhibit at the World's Fair, is collecting statistics regarding the principal American parks, at the request of the chief engineer of the park system of Paris. M. Lemoine expects to return to Paris at the close of the Exposition.

Among recent decorations P. J. Hauswirth has made some very effective arrangements of Grace Wilder carnations. This flower was used by him at a large dinner; the favors for the ladies, fifteen in number, consisted of loose bunches, one hundred carnations in each. These bunches were arranged in a graceful plateau in the center of the table. The banquet given to the visiting members of the Carriagemakers Association last week was decorated by Mr. Hauswirth, loose flowers in vases being used.

Miss Eloise, daughter of Mr. J. A. Pettigrew, superintendent of Lincoln Park, will be married to Mr. George T. Sisson October 25.

Recent visitors: E. G. Gillett, Cincinnati, Ohio; John H. Taylor and wife, Bayside, N. Y.; V.H. Hallock, Queens, N. Y.; Mrs. E. Suder, Toledo, Ohio; Z. De Forest Ely, Philadelphia; D. F. Lightfoot, Findlay, Ohio; Luther Armstrong, St. Louis, Mo.; L. Bauscher, Freeport, Ill.; W. E. Hearne, with Kemble Floral Co., Oskaloosa, Iowa; Mrs. D. J. Knox, Butte, Mont.; Chas. H. Keitsch, Buffalo, N. Y.; G. Van Bochove, Kalamazoo, Mich.; E. N. Burt, Goshen, Ind.; F. A. Scharff, New York; O. Wheatley, J. Satterthwaite, Denver, Colo.; Lucius H. Foster, Boston, Mass.; Wm. Seite, New Orleans, La.; Geo. W. West and Mr. James, Bermuda; J. E. Bonsall, Salem, O.

The World's Fair.

The banquet to the foreign commissioners October 11, which took place in the great Music Hall at the Fair grounds, was the social event of the exposition, and the decorations were in proportion to the magnitude of the event. The Music Hall is in style admirably adapted to showing off decoration, and the floral part was under the superintendence of Chief Thorpe, while the arrangement of the bunting which covered the walls was in charge of the well known artist, F. D. Millet.

The white columns around the hall were twisted with garlands of oak leaves. In the niches above the columns were palms and other foliage plants, while the wall beyond was gay with the flags of all nations. The gallery railing was garlanded with flowers and flowering plants. The entrance at the east end of the hall was almost hidden by palm



NEW CHRYSANTHEMUM MRS. E. G. HILL.

and large bay trees. A number of bays were used in the plant groups. The stage was a mass of fine plants, the music platform being built out in front of it, so that the plants above formed a background. At each of the four sides of the hall were fine groups of plants, the only variation being in the group at the back of Mr. Gage, who occupied the seat of honor, where chrysanthemums were used.

On the tables the decorations were arranged in low plateaus, so as not to interfere with the line of vision. Pink and yellow roses were chiefly used, and there were some beautiful effects produced by the use of the electric light among the flowers. The arrangement of the tables was that of an ellipse in the center with a cruciform table at either end. The effect of the plants against the background of flags was very brilliant, and rare skill was shown in the arrangement of both plants and flowers. The staircase was only decorated by oak festooning, woven around the balustrade, and large bay trees at the bottom. Mr. Thorpe was assisted in the arrangement by George Thorpe and H. M. Hughes; the decorations involved a large amount of work and a tremendous amount of material, but its beauty brought warm praise from everyone who saw it.

In the greenhouses the Brazilian caladiums are still fine, and in a short time there will be a brilliant show of chrysanthemums. In the large building there is naturally a dearth of flowers at present, which seems a disappointment to the many visitors whose only idea of ornamental gardening is an abundance of bloom. The smaller greenhouses, however, are still very gay. Outside only a few of the hardiest blossoms still remain, for we have had several sharp frosts, followed by extremely cold winds, trying to legetation of all kinds.

New Chrysanthemum Mrs. E. G. Hill.

Specimens of this fine new early pink chrysanthemum were passed upon by the judges at the World's Fair October 16, and the exhibitor was awarded a medal and diploma, the points noted in the latter being earliness, size, form, color and vigor of growth. It is a seedling from Puritan and Mrs. Alpheus Hardy and has the fine form of the latter variety, but the color is a beautiful pearly pink. Flowers were sent to this office at the same time, and they were certainly magnificent blooms, the best we have ever seen at this season of the year. The accompanying life size engraving gives a good idea of the flower except as to color, but each of the blooms sent us were on stems exceeding four feet in length and clothed with handsome foliage.

Please mention the AMERICAN FLORIST every time you write to an advertiser.

Elevating the Profession.

In reading a recent article bearing on the elevation of the profession, I was much struck with the forcible nature of the remarks on untidy and slovenly greenhouses. Truly, there is much to be said on the subject, and it can scarcely be said in too vigorous or dramatic a manner. It is to be hoped that the author of the article will keep pegging away until he creates a sentiment quite in accord with his own in the matter, and as a result of the breeze he raises everything except clean, dry, cheerful greenhouses will be swept out of Uncle Sam's entire domain.

I may say that I have some feeble anticipations of living to see the day when each house of them will be built of iron and plate glass, ornamented with brass and nickel or aluminum, and with tiled walks, possibly further fitted for the pressure of dainty slippered feet by a strip of Brussels carpet laid along the center; to say nothing of an office in connection with each group, elegantly upholstered and carpeted, with a few choice etchings on the walls and a neat little buffet in a corner, whence the fashionably attired proprietor might extract a glass of liquid refreshments for his customer wearied with the walk around his spacious conservatories; or a piano, where the aforesaid customer might, while having his or her fifty dollar nosegay carefully selected and tied up, pass a pleasant half hour rendering selections from Chopin in A sharp or B flat, or some other suggestive key.

To be sure my aspirations in that direction are not very strong or particularly hopeful, but an age that can transform a dusty, gritty, noisy railroad car into a smoothly gliding dream of luxury and beauty can surely accomplish something in the aesthetic uplifting of a business which the article in question characterizes as "delightful," but which is essentially a dirty, wet manure and whale oil soapy affair at its best. Another thing that faintly encourages me is this: Right here, south of Mason and Dixon's great and never-enough-to-be-praised line (for it hems in the utterly bad in the eyes of our friend), I have seen a cow stable—mark what I say—a cow stable, with strips of carpet laid in the alleys and pictures hung on the walls round about, with never a sight or smell to offend the most fastidious, and having an office in connection therewith where all the comfort and good cheer so markedly absent from greenhouse offices was to be found. And this cow stable was run for money. But I never heard that it made any, though hundreds of less carefully and aesthetically managed establishments right in the same county yielded a comfortable income to their owners.

To be perfectly serious, I have lived south of Mason and Dixon's line a long time, and a greenhouse establishment where customers are habitually treated to heaps of rubbish during wet weather, or in a thaw to mud ankle deep, I have never seen; neither have I ever seen a greenhouse, either north or south of the said line, that was not occasionally, during the year, either by reason of repairs or some one of the numerous changes that are made in pot plants, or fertilizings, etc. of bedded plants, made very unpleasant for any visitor.

The comparison that is drawn in the article between the neatness of the average farmer and the average florist has at least the merit of being original in awarding the palm to the farmer. It is certainly not carried out by what I have seen of the two professions; and the further comparison that is drawn between the employe of the farmer and the employe of the florist is to speak mildly of it startling. This is at least the keynote of the dissatisfaction that a four years wandering acquaintance with the "delightful" business has engendered. The florist hires slovenly, cheap men, the farmer intelligent, neat, presumably high priced ones. Our friend is with the florist and feels himself better than his surroundings, above his fellow workmen, superior in judgment and ability to run the business as it should be, to even his employer, and all after a four years' trial of the business, scarcely enough, had he remained in one place and confined his attention to the unattractive details of it, to make him a competent under gardener. This is a common complaint, and I doubt if an employer who reads this article has not, if he employs many men, met with cases of it very frequently. It is this lily fingered disinclination to engage in a business where there is so much actual contact with dirt that keeps the profession in the hands of the foreign born so largely. It is the disposition to compare one's business unfavorably with others that makes careless and self-satisfied workmen, sows the seed of discontent in a whole force of hands and tempts many a well meaning and hard working employer to language more forcible and expressive than elegant as he considers the result of a few months' tarrying by him of some elegant young gentleman whose politeness and neatness made poor amends for his conceit and general incompetency.

Our friend makes one serious misstatement which I would like to correct. He says "There (i. e., south of Mason and Dixon's line) black and white, tramps and otherwise are always on a parity." South of the line, if there is one thing that is more certain than another, it is that white and black are never considered equal. More's the pity. Why does Mr. Gatton object to them being equal? If a black man does as good work as a white man and is equal to him in other ways, which is quite possible, why make a difference on account of color?

It is to be hoped that Mr. G. will speedily get him a greenhouse or two and let us see by example how to do it. If he does not after four years' experience as an employer modify his views very considerably it will be a wonder; in fact I apprehend his verdict will be that the florists of the country, north and south, are as neat as their circumstances and means will possibly permit them to be; that they are only too anxious to get, keep and pay neat and intelligent help—providing the neatness and intelligence are not offset by conceit, insubordination and indolence; that they are, compared with average farmers, greatly superior, more industrious, more capable of permanent organization, more imbued with a love of the beautiful, more successful financially, wiser business men, neater in person and premises, pay better wages, employ better help, work them fewer hours, treat them better personally, and are, last, but by no means least, utterly incapable of being divided by sectional lines, whether of Messrs. Mason and Dixon's surveying or of Mr. P. D. Gatton's.

WM. MCROBERTS, JR.

Baltimore.

MARIE LOUISE VIOLETS were received this week from the Anchorage Rose Co., Anchorage, Ky. They were certainly fine for this season of the year, when double violets are scarce, and were very fragrant.

Florists' Supplies.

It is not so many years since florists' supples consisted of broom straw, fine wire, toothpicks, moss, bouquet papers and tinfoil. But to-day it's different. The writer could not help thinking of the wonderful change as he wandered through the warehouse of Messrs. H. Bayersdorfer & Co., of Philadelphia. Here were baskets of every conceivable shape and form, constructed of all sorts of material, from soft pliable rush to harder willow, then celluloid and finally different metals plated with silver and gold, and if the search had been pursued further no doubt even the solid metal might have been found. Wheat sheaves there were without number.

"Where is the wheat grown"? we asked. "It all comes from Italy. It is cut before it is ripe, bleached in the field and then again by sulphur.

"This lot of boxes are full of wax flowers; these we sell to the natural flower preservers; we can give them any flower they want, and it does not take near as long to *preserve* natural flowers now as it used to.

"These willow plateaus are used as much as ever. They come from Austria where they are made by whole families at home, everybody from the oldest to the youngest performing their part. They make the same thing year in and year out and become very expert. Gypsy nest baskets are made in Germany in much the same way as the plateaus, all the family taking part. These gilt and silvered jardinieres come from Berlin. There is a large and increasing demand for metal designs, and there is scarcely an emblem that is not included in this line." "Do they seem to take the place of immortelles." "Not a bit. We sell more immortelles now than ever."

"Where are the immortelles grown?" "The best come from Toulon and neighboring country in France. Their natural color is yellow; the white are bleached and other colors dyed.

"Dried cycas leaves are having a great sale; they resemble the fresh stock so closely that at distance of a few feet you can hardly tell them apart. They come from Germany, as do the dried latania, areca and phœnix leaves. Here are some phœnix plants, made up so true to nature that ——." "No, I don't want to see them! Artificial flowers are bad enough, but plants never!" "Well, we sell lots of them anyhow."

"Which is the most popular pot cover?" "It's hard to say. The celluloid had a great run, and sell very well yet, and the plain willow and braid covers are popular with many, as they can be touched up with a little bronze when soiled and made like new. Here is a line of cheaper covers, paper-mache, good heavy material, well bronzed and silvered, this season's importation. They should become popular."

"Is there as much demand for cape flowers as ever?" "Yes, there are a great many capes used; it is astonishing where they all go to, but there is an immense quantity sold every season.

"Doves are still in great demand, being used largely by decorators as well as for designs. They are all mounted on stands now. They pack better and are easily detached when wanted."

"How about the hard times?" "Don't know anything about them. We are as busy as we can be and see no signs of a let down in business."

K.

THE AMERICAN FLORIST and *Gardening* together to one address for $1.75. Send orders to the American Florist Co.

News Notes.

EVANSTON, ILL.—F. C. Fisher has started in the florist business here.

LONDONDERRY, PA.—Anna L. Seal has started in the florist business here.

MOSCOW, IDAHO.—W. D. Gano has sold out to O. P. Barkwill, who will continue the business.

AMITYVILLE, N. Y.—The Amityville Nursery and Greenhouse Co. is erecting a 100-foot greenhouse.

GRAND RAPIDS, MICH.—Henry Smith is succeeded by the Henry Smith Floral Co., J. W. Rawlinson, manager.

SOUTH BEND, IND.—Charles M. Treanor, of Treanor & Rettig, and Mabel M. Good were marri d September 27.

EVANSVILLE IND.—B. F. Kramer has finished building his greenhouse. This is his first season in the business.

ETNA, N. J.—Demarest Brothers have dissolved partnership. The business will be continued by J. C. Demarest.

CHESHIRE, CONN.—John J. Walter, late of New Haven, has moved his greenhouses and business to this place.

GARFIELD, N. J.—Miss Marie Lowe has started in the business here and will grow violets for the New York market.

TAUNTON, MASS.—C. A. Briggs has added five new houses, of which two are 20x100, two 8x100 and one 10x60.

DESMOINES, IA.—W. L. Morris has opened a down-town store at 306 Seventh street. He still retains his greenhouses on Cottage Grove avenue.

SPRINGFIELD, MASS.—At the last meeting of the Amateur Horticultural Society Mr. Chas. H. Barrows gave a valuable lecture on "Forest Preservation."

SIOUX CITY, IA.—Edward Hornung, formerly of Plymouth, Wis., has purchased the florist business of Wm. Smith. He will put the place in thorough repair and continue the business.

BURLINGTON, N. H.—The Board of Control of the Experiment Station has appointed Mr. A. C. Gulley, M. S., horticulturist of the station and instructor in horticulture at the Agricultural College. Mr. Gulley has been connected with the Michigan Agricultural College for some time.

THE HORTICULTURAL SCHEDULE of the Lyons (France) International Exposition, recently received, gives evidence of great thoroughness in this department. The horticultural exhibits are to be in place from April 26 to October 31, 1894, and are divided into 868 classes, including specimens and collections.

NASHVILLE, TENN.—Two of the florists here are indulging in wild competition and prices have been cut down way below cost. American Beauty roses have been offered at $1 a dozen, other roses at 25 cents a dozen, valley and Romans 50 cents a dozen and carnations 35 cents a dozen in advs. in the daily papers. And since these announcements appeared one of the parties has sold American Beauties at 25 cents a dozen and all other roses at 10 cents a dozen. Of course the rest of us can do no business until this feud is settled by the failure of one or the other of the parties to it. It seems too bad that they can't fight their duel without doing such serious injury to the whole trade in this city.

LOUISVILLE, KY.—In a recent primary election, in the race for mayor, the men in favor of Mr. Jacobs wore a Marechal Niel rose, while those for Tyler wore anything else they chose, but principally red carnations. Anyone not in favor of Mr. Jacobs could not be hired to don a yellow rose. It originated by Mr. Jacobs always being seen with his favorite flower, an M. Niel bud, pinned to the lapel of his coat, and his adherents followed suit. I noticed in a recent issue of the FLORIST that this kind of floral badges was being worn in Vienna and suggesting its introduction into this country, and thought I would let you know that this plan is already in operation here.

Foreign Notes.

Spiræa Bumalda "Anthony Waterer" is a dwarf variety having very deep rosy red flowers. It is an admirable thing for bordering shrubberies or planting in rockeries.

This year Mr. Eckford is testing eleven new sweet peas, not yet introduced to general cultivation. Among these is Blanche Burpee, wings and standards creamy white, very large; Countess of Aberdeen, white, delicately tinted towards the edge of the standard with soft pink, wings blush, very attractive; Novelty, orange tinted standard, wings delicate mauve, margined rose, very bright; Meteor, bright orange, tinted scarlet and violet; very distinct. Mr. Eckford is now working for a yellow flower, and it is quite possible that it will be attained in the future.

An additional list of M. Latour-Marliac's new hybrid nymphæas includes N. Robinsoni, a small flower, barely four inches in diameter when open. Petals broad, soft rosy terra cotta, shaded with primrose, conspicuous golden stamens. N. Laydekeri fulgens, five outer dark green sepals, about fifteen cupped petals of deep crimson magenta. This is said to be extremely rich and glowing in color. N. Laydekeri liliacea is described as a small and dainty flower, with petals of a peach blossom color and rosy lustre. Like N. Laydekeri ignea, previously described in our pages, these are all great acquisitions to our list.

Feeding Anthuriums and Alocasias.

In growing specimens does it improve anthuriums and alocasias to be watered occasionally with liquid manure? If so, should the liquid be very weak?

ANTHURIUM.

Both anthuriums and alocasias will be benefited by an occasional watering with liquid manure during their season of active growth, that is, during the summer, providing they are well established plants. But during the winter it would be safer not to experiment in this direction, and at all times to use the liquid rather weak.

W. H. TAPLIN.

Clematis.

A box of clematis flowers recently received from F. A. Baller, Bloomington, Ill., showed some excellent types, both in color and shape. One of the first noted was a seedling from Jackmanni, the color being a deep reddish purple; it is a fuller flower than the parent, having a tendency to come double. Jackmanni and J. superba were both noted; in the latter the flowers were in large clusters. Among less known sorts were some labelled as follows: Duchess of Edinburgh, a fine double white, very pure and satiny; Countess Lovelace, a very large, six-petalled flower of clear violet, very striking. Fairy Queen, a large pale violet flower with deeper anthers; Princess Alexandra, fine purple of the Jackmanni type; Duke of Norfolk, purple flower, with white stamens and red anthers; Henryii, large, white, very fine. These are among the most showy flowering vines we have, and are worthy of far more notice than we give them.

WE HAVE received from Messrs. Aug. Rolker & Sons, New York, samples of Fenster Pappe, a new German material for using on hotbed sash as a substitute for glass. The oiled material seems fully as transparent as the oiled muslin frequently used, but it is more rigid and we would imagine it to be a good thing.

WE HAVE received a copy of the premium list of the Toronto Gardeners' and Florists' Association for the fourth annual chrysanthemum show to be held in the Horticultural Pavilion, Toronto, Ont., Nov. 21 to 24 next. Copies may be had on application to A. H. Ewing, Sec'y, 85 Carlton street, Toronto, Ont.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By an experienced florist and gardener who wishes to change place by December 1. Best of references. State wages. Address B N, care American Florist, Chicago.

SITUATION WANTED—By single man to assist on private place; English; 7 years' experience. Good references. Age 21 years. Address WILLIAM M. TIPLADY, care J. C. Vaughan, P.O. Box 688, Chicago.

SITUATION WANTED—By a thorough, practical gardener and florist, care of gentleman's private or commercial place. Roses, carnations, violets a specialty. Best references. Address G W, box 38, Brooklyn Village, Ohio.

SITUATION WANTED—As traveling salesman for seeds, plants, bulbs, etc. Am at present holding a like position; will be disengaged November 1st. State salary. Address SALESMAN, care F Stevens, Claymont, Delaware.

WANTED—One Carmody boiler, second-hand, must be good and cheap. WM. GERLACH, Piqua, O.

WANTED—A first-class maker-up and salesman at once; permanent place to right party. Address J J M, care American Florist, Chicago.

WANTED—A rapid and reliable packer of green house plants for the catalogue mail and express trade, about January 1st or sooner. Address with full particulars. WESTERN, care American Florist.

WANTED—A good, honest, energetic, single man, with some experience in growing plants and cut flowers, to take charge, at once, of floral business in town of 10,000. FLORIST, box 197, Columbia, Tenn.

WANTED—First-class man as market gardener rose grower and propagator, must be experienced and active and able to take charge of part commercial place; German; single preferred. Wages, $25 per month and board. SCHMALZL & HUBER, Marysville, Marshall Co., Kan.

FOR SALE CHEAP—The very handsome oak finished and plate glass ice box, shown in our exhibit at the World's Fair. Visiting florists in need of a fine box will please examine this. VAUGHAN'S SEED STORE, Chicago.

FOR SALE OR RENT.

Rose and cut flower growing plant containing about 35,000 square feet of glass; houses bested by steam and hot water; all in good condition; well stocked with roses, ferns, palms, etc. Only 18 minutes ride from center of city. If you mean business, address FLORIST, care Chas. E. Prather, Louisville, Ky.

WILL EXCHANGE.

L. Cand., Iberis semp., Astilbe jap., Freesias, Crape Myrtles, Caladium esculentum, Grevillea robusta, Clematis Davidsoni, Pontederias, Canna Star of '91, Tecoma radicans, Sarracenias purpurea and flava, Dble. White Altheas, and other shrubs, Eulalia uni. and Amaryllis Treatii, for usable plants, etc. What have you? M. R. CATLIN CO., Richmond, Va.

For Sale.

My stock (20 shares) in Probst Bros. Floral Co. For particulars, write

SAMUEL MURRAY,
1017 Broadway, KANSAS CITY, MO.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent, 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Chrysanthemum Shows.

Pittsfield, Mass., Oct. 31-Nov. 3—Berkshire County Gardeners' and Florists' Club. W. M. Edwards, Sec'y, 103 Howard St., Pittsfield, Mass.
Baltimore, Nov. 6-11—Gardeners' Club of Baltimore. Wm. McRoberts, Jr., Sec'y, 304 W. Madison St.
New York, Nov. 6-13—New York Florists' Club. John Young, Sec'y, 53 West 30th St. Henry McCrowe, manager of exhibition, Grand Central Palace.
Milwaukee, Wis., Nov. 7-9—Milwaukee Florist Club. A. Klokner, Sec'y, 219 Grand Ave.
Newport, R. I., Nov. 7-9—Newport Horticultural Society. John J. Butler, Sec'y, P. O. box 313.
Hartford, Conn., Nov. 7-9—Hartford County Hort. Society. Edw. S. Young, Sec'y, 60 Oak St.
Boston, Nov. 7-10—Massachusetts Horticultural Society. Robert Manning, Sec'y, 101 Tremont Street.
St. Louis, Nov. 7-10—St. Louis Florists' Club. E. Schray, Sec'y, 4101 Pennsylvania Ave.
Indianapolis, Ind., Nov. 7-11—Society of Indiana Florists. Wm. G. Bertermann, Sec'y, 37 Mass. Avenue.
Philadelphia, Nov. 7-11—Pennsylvania Horticultural Society. D. D. L. Farson, Sec'y, Broad St.
Worcester, Mass., Nov. 8-9—Worcester County Hort. Society. Edw. W. Lincoln, Sec'y.
Montreal, P. Q., Nov. 8-10—Montreal Gardeners' and Florists' Club. Henry Stocking, Sec'y, 230 St. Denis St.
Providence, R. I., Nov. 8-10—Rhode Island Hort. Society. C. W. Smith, Sec'y, 61 Westminster St.
Louisville, Ky., Nov. 9-14—Louisville Florists' Club. H. Nanz, Sec'y, 582 Fourth Ave.
Springfield, Mass., Nov. 14-16—Hampden County Hort. Society. Joseph Booth, Sec'y, care of Springfield Institution for Savings.
Washington, Nov. 14-17—Florists' Club of Washington. G. W. Oliver, Sec'y, 1844 8th St., N. W.
Toronto, Ont., Nov. 21-24—Toronto Gardeners' and Florists' Association. A. H. Ewing, Sec'y, 85 Carlton St

CUT FLOWERS.

Novelties
— AND —
New Introductions
— IN —
ROSES & CHRYSANTHEMUMS
Fine Exhibition Stock.
Thos. Young, Jr.
WHOLESALE FLORIST,
20 WEST 24TH ST., NEW YORK.

HARDY CUT FERNS
LAUREL FESTOONING,
SPHAGNUM MOSS,
IN ANY AMOUNT ALWAYS ON HAND.
H. E. Hartford,
18 Chapman Place, BOSTON, MASS.

THE
CHICAGO CUT FLOWER EXCHANGE
The First Annual Meeting of the Stockholders of the Chicago Cut Flower Exchange will be held on Friday morning, October 27th, 1893, at 10 o'clock, at 45 Lake Street, for the purpose of electing a Board of Directors, and transacting such other business as may be brought before the meeting.
T. F. KEENAN, Asst. Sec'y.

"JACQ" ROSES the Year Around.
We are now Cutting THOUSANDS DAILY of
*** METEOR ROSES. ***
The finest Crimson Summer Rose, equal to "Jacq" in color and far superior in keeping qualities. Can supply it in quantity at all times. Prices on application.
F. R. PIERSON COMPANY,
Tarrytown-on-Hudson, N. Y.

Chrysanthemums that are mums. . . .
NOW I HAVE THEM!
I can fill your orders with the finest mums in the market. Send me a trial order for choice stock. Also fine Roses and Carnations in variety.
ORDERS PROPERLY PACKED AND SHIPPED ON TIME.
T. J. CORBREY, Wholesale and Commission Florist,
PHONE, MAIN 4508. 45 Lake St., CHICAGO.

J. B. DEAMUD & CO.
Wholesale Cut Flowers.
OUR SPECIALTIES AT PRESENT:
Chrysanthemums, Valley, and the finest stock of Roses in the market.
All shipping orders are filled from fresh cut stock of our own growing.
45 Lake Street, CUT FLOWER EXCHANGE, **CHICAGO.**

FOR DECORATING, NOTHING CAN EQUAL
ASPARAGUS PLUMOSUS NANUS.
CUT STRINGS 8 TO 12 FEET LONG, 50 CTS.
12 TO 18 FEET LONG, $1.00.
Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.
W. H. ELLIOTT, Brighton, Mass.

THE
WISCONSIN FLOWER EXCHANGE
WHOLESALE
Cut Flower Commission Dealers
468 MILWAUKEE ST.,
MILWAUKEE, WIS.
Solicit correspondence with growers of Roses, Carnations, Violets, American Beauties and other stock within shipping distance of Milwaukee, with a view to handling their consignments.

DAN'L B. LONG,
COMMISSION • FLORIST,
495 Washington St., BUFFALO, N. Y.
FORCING BULBS, FLORISTS' SUPPLIES,
LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application.

WHOLESALE FLORISTS
La Roche & Stahl
N. E. CORNER
13th & Chestnut Sts.,
PHILADELPHIA.
Mention American Florist.

SAMUEL S. PENNOCK,
Wholesale Florist
REMOVED TO REAR OF 42 S. 16th ST.,
Philadelphia, Pa.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO.

	Per 100
Perles, Niphetos, Gontier	$ 2.00@$ 3.00
Bride, Mermet, La France, Victoria	3.00@ 4.00
Testout, Meteor	5.00@ 6.00
Am. Beauty	10.00@ 18.00
Roses, our selection	3.00
Carnations, long	1.00@ 1.50
" short	.50@ 1.00
Valley	4.00@ 5.00
Chrysanthemums, common	2.00@ 6.00
" fancy	8.00@ 30.00
Smilax	15.00@ 18.00
Ferns	per 1000 $2.50, .30
Adiantum	1.00
Fresh Cycas leaves	$1.00 each.

Western Agent for the GREAT ANTIPEST.

Kennicott Bros. Co.
WHOLESALE CUT FLOWERS,
34 & 36 RANDOLPH STREET,
CHICAGO, ILL.
WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist,
126 Dearborn St., CHICAGO.
Agent for finest grades Waxed and Tissue Papers.

NILES CENTER FLORAL CO.
Incorporated.
WHOLESALE GROWERS OF
CUT FLOWERS of ALL KINDS
and Dealers in FLORISTS' SUPPLIES.
CHAS. W. McKELLAR, Mgr.
In Chicago Cut Flower Exchange,
45 Lake St., CHICAGO.

T. J. CORBREY,
Wholesale and Commission
FLORIST,
45 Lake St., CHICAGO, ILL.
In Chicago Cut Flower Exchange. . . .

H. L. SUNDERBRUCH,
Wholesale Florist
4TH AND WALNUT STREETS,
Cincinnati, O.

W. ELLISON,
WHOLESALE
Cut Flowers AND Florists' Supplies
1402 PINE STEET,
St. Louis, Mo.

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
WHOLESALE
FLORIST,
1122 PINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

CUT SMILAX,
15 cts. per string till November 1st. Quality first-class. Special attention to orders by wire.
J. E. BONSALL & SON, 308 Garfield Ave., Salem, O

Wholesale Markets.

Cut Flowers.

NEW YORK, Oct. 14.

Roses, Gontier, Perle, Cusin, Watteville	1.00@ 3.00
" La France, Mermet, Bride, Hoste	1.00@ 3.00
" Bridesmaid, Augusta Victoria	1.00@ 4.00
" Testont, Meteor	2.00@ 6.00
" Beauty	5.00@20.00
Carnations	.50@ 1.00
Chrysanthemums, selected	12.00@17.00
" small	2.00@ 3.00
Violets	.50@ 1.00
Valley	3.00@ 4.00
Smilax	12.00@15.00
Adiantums	1.00

BOSTON, Oct. 14.

Roses	2.00@ 4.00
Carnations	1.00@ 2.00
Chrysanthemums	10.00@15.00
Violets	.50@ .75
Lily of the valley	4.00
Smilax	12.00
Adiantum	1.00
Asparagus plumosus	50.00

PHILADELPHIA, Oct. 14.

Roses, La France, Mermet, Albany	3.00@ 4.00
" Kaiserin, Meteors	5.00@ 6.00
" Perle, Cusin, Watteville	2.00
" Gontier	1.00@ 1.50
" Belle, Beauty	12.00@16.00
Carnations	1.00@ 1.25
Cosmos	.50
Valley	3.00@ 4.00
Violets, per 100 bunches, single	3.00@ 4.00
" double	.50
Smilax	15.00
Asparagus sprays, per bunch	.50

CHICAGO, Oct. 17.

Roses, Perle, Gontier, Niphetos	2.00@ 3.00
" Bride, Mermet, La France	3.00@ 4.00
" Kaiserin	3.00@ 4.00
" Meteor, Testout	5.00@ 6.00
" Beauties	8.00@18.00
Carnations, long	1.00@ 1.50
" short	.50@ 1.00
" fancy	2.00
Valley	4.00@ 5.00
Chrysanthemums, common	2.00@ 6.00
" fancy	8.00@30.00
Cosmos, per bunch	.35
Smilax	15.00@18.00
Asparagus	60.00

ST. LOUIS, Oct. 16.

Roses, Bon Silene, Perle, Niphetos	2.00@ 3.00
" Bride, Mermet, Watteville	3.00@ 4.00
" Hoste	2.00@ 4.00
" Albany, La France, Kaiserin	3.00@ 4.00
" Wootton	2.00@ 3.00
" Meteor	3.00@ 5.00
" Beauty	5.00@20.00
Carnations, short	.75
" long	1.00@ 2.00
Violets, single	.25
Smilax	12.00@18.00
Adiantum	1.25
Ferns, fancy	.20
Chrysanthemums	3.00@ 6.00

CINCINNATI, Oct. 14.

Roses, Beauty	5.00@15.00
" Mermet, Bride, La France	4.00
" Perle	3.00
Carnations, long	1.00
" short	.50
Chrysanthemums	5.00@ 25.00
Valley	4.00
Smilax	15.00
Asparagus	50.00@75.00
Adiantum	1.00@ 1.25

BUFFALO, Oct. 16.

Roses, Beauties	15.00@20.00
" Gontier, Niphetos, Hoste, Perle	3.00@ 5.00
" Mermet, Bride, Meteor	4.00@ 5.00
" Testont	5.00
" La France	6.00@ 8.00
Carnations, long	1.00@ 1.25
" short	.75
Valley	5.00
Smilax	12.00@15.00
Asparagus	50.00

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers AND Florists' Supplies
WHOLESALE.
67 Bromfield Street, BOSTON, MASS.

WHOLESALE
FLORISTS,
JOBBERS IN . . .
. . FLORISTS' SUPPLIES,
METS,
BRIDES,
GONTIERS,
CARNATIONS,
ALWAYS ON HAND.
FLORISTS' VASES.
1 Music Hall Place,
BOSTON, MASS.
HORTICULTURAL AUCTIONEERS. . .

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN AND SHIPPERS OF
Choice Flowers.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST.
32 West 30th Street, NEW YORK.
Roses Shipped to all Points. Price list on application.

JOHN YOUNG,
Commission Dealer in
CUT FLOWERS.
WHOLESALE.
53 WEST 30TH ST., NEW YORK.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS,
51 W. 30th St., NEW YORK.

JAMES HART,
WHOLESALE FLORIST,
117 W. 30TH ST., NEW YORK.
The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHRS,
WHOLESALE
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.
Established 1879.

MILLANG BROS.,
Wholesale Florists,
17 WEST 28TH STREET,
NEW YORK.
BRANCH: Cut Flower Exchange, 408 E. 34th Street.

MICHAEL A. HART,
Wholesale AND Commission Florist
113 WEST 30TH STREET,
. . . NEW YORK.
THE FINEST ROSES AND CARNATIONS.
Branch, at Cut Flower Exchange, 408 E. 34th St.

EDWARD C. HORAN,
34 W. 29th Street, NEW YORK.
Wholesale Florist
Careful Shipping to all parts of the country.
Price list on application.

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St., BOSTON, MASS.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and treasurer, 116 Chambers street, New York. Next annual meeting second Tuesday in June, (will probably be held in Toronto.)

SWEET PEAS of the best named sorts appear to be a short crop.

VISITED CHICAGO, Z. De Forest Ely, L. L. May, C. A. Reeser, W. Wendell, Avery Gallup, S. M. Emery, H. A. Johns, H. H. Friedly, Dan'l DeCou, F. T. Emerson, L. L. May.

Seedsmen Meet—The American Protective League Dines and Does Business at the Rochester Club.

At the Rochester Club yesterday afternoon was held the annual meeting and banquet of the American Seedsmen's Protective League. Dinner was served at 1 o'clock. The menu was very carefully selected and the table was one of the finest ever set in this fashionable club house. The centerpiece was made of vegetables of various kinds furnished by Crosman Bros. and arranged by the steward in a most attractive design. There were potatoes, cauliflower heads and other seed products, all set off by flowers.

After dinner the business session was called to order. The members present included W. Atlee Burpee, William Henry Maule, Wm. F. Dreer, Robert Buist, Landreth & Sons, all of Philadelphia; Alexander Forbes, of Peter Henderson & Co., New York; James Bruggerhoff, of James Thorburn Co., New York; N. B. Keeney, of Le Roy; C. W. and George F. Crosman, of Crosman Bros., and James and Charles H. Vick, of James Vick's Sons, of this city. —*Rochester Herald, October 11.*

Louisville, Ky.

The leading florists of the city are now preparing for the annual flower show, which will take place at Liederkranz Hall early next month. This display will be gotten up for the benefit of the children's free bospital and will be under the auspices of the Hospital Circle of King's Daughters. Among those who have agreed to make exhibits are Nanz & Neuner, Lauer, Schulz, Reimers and others.

Edw. G. Reimers has just completed four very large greenhouses of the latest improved style, which contain about 25,000 feet of glass.

Jacob Schulz has bought Francis Morat's Sons' store on 4th avenue, the Messrs. Morat retiring from the business.

A. Lauer, one of Louisville's oldest florists, is confined to his bed by illness.

Warm weather makes trade quiet, market overstocked. Stock is getting in good condition and fine La France roses are taking the lead. C. H.

WE SELL MUSHROOM SPAWN,

LILIUM HARRISII AND DUTCH BULBS.

Special Low Prices to Florists & Dealers.

WEEBER & DON,

Seed Merchants and Growers,

114 Chambers Street, NEW YORK.

IRISH TRUMPET DAFFODIL "Colleen Bawn," rare white, $5.00 per dozen.
IRISH KING, magnificent golden, $3.00 per dozen.
EXQUISITE FREESIAS, $3.00 per hundred.
GIANT IRISH ANEMONES, "St. Brigid" Seed, packet, $1.00.

FALKINER, Killiecan, Ireland.

Bulbs. Bulbs. Bulbs.

BEST STOCK AT MOST REASONABLE PRICES.

We guarantee to you **SOUND DELIVERY** at point of destination, accidents to carriers excepted. We give you **NET** prices of all goods if desired, showing you to a penny cost with all charges of freight, etc. included.

For Delivery NOW:

Auratum, Rubrum, Album, and 30 other sorts of Japan Lily bulbs. Great assortment of California BULBS.

Plants, for Decoration: Can be shipped throughout Fall by freight: Araucaria excelsa in finest stock. Rhapis flabelliformis, or Humilis. Aspidistra variegata. Cyperus alternifolius, in strong clumps.

SEEDS. SEEDS. SEEDS.

Australian and California Palm seeds. Japan and California Conifer seeds. Flower seeds

PAMPAS PLUMES. New Crop Eulalia Japonica Plumes. Cycas revoluta Leave dried. Order NOW.

Orders must reach us by November 1st, as collections of stems are made during December only:

CYCAS REVOLUTA STEMS.

Will furnish the **long leaved Cycas** at lowest prices ever offered. Send for our Trade List. We furnish cheerfully any information desired, give estimates of cost, etc.

ADDRESS **H. H. BERGER & CO.,**

Established 1878 **SAN FRANCISCO, CALIFORNIA.**

MAMMOTH BULBS

LILIUM HARRISII FOR EXHIBITION

Purposes and for growing **Specimen Plants.** Very choice and scarce.
PRICE, $25.00 per hundred.

Also a fine lot of 5 to 7, and 9 to 11.
PRICE, 5 to 7, $3.00 per hundred; $25.00 per thousand.
9 to 11, $12.00 per hundred.

F. R. PIERSON COMPANY,

TARRYTOWN-ON-HUDSON, N. Y.

HULSEBOSCH BROS.,

BULB AND PLANT GROWERS,

OVERVEEN, near Haarlem, HOLLAND.

	Per 100	1000
Lilium Harrisii, 4 to 5-inch in circ.	$1.75	$16.00
" " 5 to 7-inch in circ.	2.50	20.00
" " 7 to 9-inch in circ.	4.75	42.00
Roman Hyacinths, top roots	3.00	24.00
" " selected	2.25	21.00
" " regular size	2.00	19.00
Italian, blush white Roman, selected	2.50	21 00
Freesia refracta alba	.75	5.00
Narcissus tetus albus	.70	6.50
" " " grandiflorum	1.25	10.00
" Chinensis (Sacred Lily), extra	5.50	50.00
Single Tulips, mixed, gardening	.75	6.00
Double " " "	.90	7.00
Single " " extra fine	.85	7.50
Double " " extra fine	1.00	8.00
Single garden hyacinths, mixed	2.25	18.00
Double " " "	2.50	22 00
Single forcing " "	2.50	21.00
Double " " "	3.00	25.00

Single and double named Hyacinths, Tulips, Crocus, etc., etc., at low rates.

A. HULSEBOSCH,

P. O. Box 3118. Warehouse, 58 West Street,

NEW YORK CITY.

Mention American Florist.

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to

Seed Bags and Catalogue Envelopes.

NEW HAVEN, CONN.

TRY **DREER'S GARDEN SEEDS,**

Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.

HENRY A. DREER, Philadelphia, Pa.

HYACINTHS, TULIPS.

Full assortment ready now. Our stock is A No. 1 in every way.

Lil. Longiflorum, 7-9 in. $5.50 per t00.

MUSHROOM SPAWN.

New importation ready this week. 10 pounds for $1.20; 100 pounds $8 00.

PANSY SEED.

BARNARD'S FLORIST MIXTURE is popular wherever tried. Trade packet, 25 cts.; ⅛ ounce, $1.00.

W. W. Barnard & Co.

6 and 8 N. Clark Street, CHICAGO.

Send for Fall Bulb Catalogue.

Bulbs & Plants.

FOR CATALOGUES, ADDRESS

C. H. JOOSTEN,

IMPORTER,

3 COENTIES SLIP, NEW YORK.

BULBS! BULBS!

Lilium Auratum, Spec. Rubrum, Spec. Album, Longiflorum, etc. Order now.

Callas, Callas, at lowest rates: Fresh Cut Cycas leaves, prices and sizes to suit all. Fresh imported Cycas, lowest prices. Camellias, Pæonias, Japan Maples, and for general Japanese stock seeds. Remember we guarantee sound delivery, still goods travel at owner's risk. Apply to

F. GONZALEZ & CO.,

Nursery and Greenhouses, 303 to 312 Wayne Street, SAN FRANCISCO, CAL.

Choice Lily of the Valley Pips.

Ernst Reimschneider, Altona, Hamburg.

For Fall Importation. Catalogues free on application to his sole agents,

C. C. ABEL & CO., P. O. Box 920, New York.



Write for Wholesale List.

MICHEL PLANT AND BULB CO.,
ST. LOUIS, MO.

Siebrecht & Wadley,

ROSE HILL NURSERIES,



NEW ROCHELLE, N. Y.

Palms,
ORCHIDS
Roses,
and New Plants.

FRESH DRACAENA CANES NOW READY.

ORCHIDS.

The Finest Stock in the World.

SANDER'S,
ST. ALBANS,
ENGLAND.

Thirty minutes from London.

Our Mr. A Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street. New York City

Established and Imported

ORCHIDS.

Ig. FORSTERMAN,

Newtown, N. Y.

WHY NOT TRY

A FEW ORCHIDS?

They are Very Cheap. They are Easily Grown. They Sell Well.
They always attract attention in store or greenhouse.

BRACKENRIDGE & CO.,
304 W. Madison St., BALTIMORE, MD.

CYCLAMEN persicum giganteum. 3 inch pots $6.00 per 100
PANSIES, Mammoth Strains. 75 cts. per 100 $5.00 per 1000.
CARNATIONS, Dorner's Seedlings, $15 per 100
Daybreak $8.00 to $10.00 per 100
McGowan, Puritan, Wilder, and others, $8.00 per 100. Second size $6.00 per 100
Correspondence solicited.

Address **J. G. Burrow,**
FISHKILL, N. Y.

VIOLETS. ROSES. VIOLETS.

Our violets are positively free from disease.

	Per 100	Per 1000
Violets Marie Louise, fine cuttings	$ 2.50	$25.00
Roses Gen. Jacqueminot, from 5-in. pots	8.00	75.00
Roses Gen. Jacqueminot, from 4-in. pots	6.00	55.00
English Ivies, 4 to 6 feet long, pot grown	5.00	

When ordering, give directions how to ship. Cash with order, 5 per cent. discount.

JOHN RECK, Bridgeport, Conn.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

TULIPS FOR THE MILLION. BY THE

The grandest stock in the United States of this most beautiful flower for bedding or forcing, embracing

OVER ONE MILLION BULBS.

25 of a Kind at 100 price. 250 of a kind at 1000 price.
2,500 of a kind at 10,000 price.

	Per 100	1000	10,000
Single Early Tulips, mixed, all colors	$1.00	$ 7.50	$ 60.00
" " superfine mixed, all colors	1.25	10.00	85.00
Single Late Tulips, " " "	1.00	7.50	60.00
Single Tulips, Florists' Forcing Mixture	1.50	12.00	100.00
Double " " " "	1.50	12.00	100.00
" **Early Tulips,** mixed, all colors	1.00	7.50	60.00
" **Late** " " "	1.50	12.00	100.00

SCARLET, RED and PINK TULIPS.

The letters **A, B** and **C** before the name indicates earliness of blooming; those marked **A** are earliest and bloom together; **B** blooms next and together, etc. The numeral indicates height in inches.

B 7 Artus, single bright red	$1.25	$ 9.00	$ 80.00
B 7 Belle Alliance, single scarlet	1.60	14.00	130.00
B 7 Crimson King, single red	1.00	7.50	60.00
A 7 Duc von Thol, single scarlet	.75	6.00	50.00
A 6 " single rose	2.00	18.00	
A 7 " single crimson	.75	6.00	50.00
B 8 Pottebakker, single scarlet, **fine**	2.00	18.00	170.00
A 7 Proserpine, single carmine rose	3.25	30.00	275.00
A 8 Rembrant, single, magnificent scarlet	2.00	18.00	170.00
B 8 Vermilion Brilliant, single scarlet, extra	2.50	23.00	210.00
A 6 Double Duc von Thol, double scarlet	1.00	7.50	60.00
A 7 Gloria Solis, double scarlet	1.25	9.00	80.00
A 8 Imperator Rubrorum, double scarlet	2.75	25.00	230.00
L 8 Paeony Red, double red	1.50	12.00	110.00
B 7 Rex Rubrorum, double bright scarlet	1.75	16.00	150.00

WHITE TULIPS.

C 9 Coleur Ponceau, single white, crimson border	$1.00	$ 7.50	$ 70.00
B 6 Cottage Maid, single white, edged with rose	3.25	30.00	270.00
A 6 Duc von Thol. " pure	3.00	27.50	
B 7 Jagt Van Delft, " fine	1.50	14.00	130.00
B 7 Joost Von Vondel, " and cherry red	2.00	17.00	160.00
B 7 La Reine, (Queen Victoria), single rosy white	1.50	12.00	110.00
A 8 Pottebakker, single, pure white	3.00	27.50	250.00
B 5 Rose Gris De'lin, single white and rose, fine	2.50	22.00	200.00
B 8 Rosa Mundi Hinkman, single white and rose, fine	2.00	18.00	170.00
B 7 Standard Silver single crimson and white	1.50	12.00	110.00
B 7 La Immacule, single, pure white	1.75	15.00	140.00
B 6 La Candeur, double, pure white	1.00	7.50	65.00

YELLOW and VARIEGATED TULIPS.

B 7 Bizart Verdict, single orange and scarlet	$1.00	$ 7.50	$ 65.00
B 6 Brutus, single orange crimson	1.50	12.00	110.00
A 8 Canary Bird, single, clear pure yellow	2.50	22.00	210.00
B 7 Chrysolora, single large golden yellow	2.25	21.00	200.00
B 9 Duchess de Parma, single brownish red, yellow stripe	1.50	12.00	110.00
A 6 Duc von Thol, single red and yellow	1.00	9.00	75.00
A 6 " single pure yellow	3.00	27.50	250.00
B 9 Keizer-Kroon, single large red and yellow	2.25	21.00	200.00
A 8 Pottebakker, single, pure yellow	2.25	20.00	190.00
B 7 Yellow Prince, single yellow, sweet scented	2.50	23.00	220.00
A 6 Double Duc von Thol, red, yellow edge	1.00	7.50	65.00
L 8 Paeony Gold, double yellow	1.50	13.00	120.00
A 7 Tournesol, double pure yellow	2.75	26.00	250.00
L 6 Yellow Rose, double pure yellow	1.25	10.00	90.00

PARROT TULIPS—For open ground

Fine mixed	1.00	8.00	70.00

DARWIN TULIPS.

A new race, late flowering, very beautiful, fine mixture, many sorts, $4.50 a 100; $40 a 1000

HAVE YOU HAD OUR BULB CATALOGUE?

If not write for it at once. Most liberal prices, finest quality and most complete assortment.

Z. DE FOREST ELY & CO.

THE BULB IMPORTERS,

1024 Market St., P. O. BOX 1176, **Philadelphia, Pa.**

Registered Cable Address, DE FOREST, PHILA. Mention this paper.

Indianapolis.

The October meeting of the Indianapolis Florists' Club was the best attended meeting ever held and several new members were elected. A paper on "Public Parks" was read by Herman Young, florist at Garfield Park. The subject was well handled and was discussed at some length. Another paper by John Hartje on "Soils" was short, but showed knowledge and experience.

A committee was appointed to represent the club on the reception committee for the chrysanthemum show. Show matters were reported progressing splendidly. Chrysanthemum plants and flowers are in excellent shape in this neighborhood.

The Indiana Horticultural Society will make an exhibit of fruits to be in position Wednesday noon of show week in connection with the chrysanthemum show. This society meets in annual session at the State House November 8, 9 and 10.

Trade has been dull, but is improving at intervals.

Referring to our article on bulbs sent to a local seed house here, as appeared in FLORIST of October 5, we find upon further investigation that there was just cause for the party refusing them, and no reflection should be cast against his credit on account of this transaction.

The first chrysanthemum blooms of this season were displayed in the florists' windows here October 13. The variety displayed was Mrs. E. G. Hill, a seedling cultivated by E. G. Hill & Co., Richmond, Ind. The dozen blooms shown were on straight stems thirty inches long, covered with perfect leaves from base to flowers. The flowers were about half expanded and showed a beautiful shade of pink, shading from La France to Daybreak pink; it is an incurved variety with perfect shaped petals, the outer edge of flower opening somewhat circular. The display attracted all passersby and was admired greatly. It is certainly an early variety, the most pleasing color and good texture. No matter who says that chrysanthemums are big coarse flowers, they will admit now that no flower has grown more in favor among all classes of people than the Queen of Autumn.

W. B.

DO YOU WANT a list of the leading park superintendents of America? You will find such a list in our trade directory and reference book.

The Grand New Forcing Rose,

"American Belle."

Prices and full particulars on application.

John Burton, Chestnut Hill, Philadelphia

ROSES.

	Per 100	Per 1000
2000 Perle, 3-inch	$ 5.00	$40.00
1000 " 2½ inch	3.00	25.00
600 Bride, 2½-inch	3.00	25.00
1200 Mermet, 2½-inch	3.00	25.00
130 Waban, 2½-inch	3.00	
200 Hoste, 2½-inch	3.00	
150 Am. Beauty, 4-inch	10.00	
300 Mme. Testout, 3-inch	15.00	

BROWN & CANFIELD, Springfield Ill.

ROSES.

FINE, HEALTHY STOCK,

from 2½-inch pots. All the leading forcing and fancy garden sorts of Teas and Hybrid Teas.

Prices on application.

MEMPHIS FLORAL CO., Memphis, Tenn.

FALL BULBS, PALMS, ETC.

LILIUM CANDIDUM, large, plump, solid bulbs, per 100 $2.75; per 1000 $23.00.
FREESIAS, clean, large, healthy bulbs, first size $4.50; select $7.50 per 1000.
ROMANS, PAPER WHITE NARCISSUS, and a **FULL LINE** of all Fall Stock.
CHINESE NARCISSUS, genuine imported, ready, per 100 $5 50.
LILIUM AURATUM, genuine imported, ready, per 100 $8.00.
CALLAS, fine, medium sized bulbs, per 100, $5.00.
ROSE C. SOUPERT, 2½-inch, fine stuff, per 100 $3.50; 3½-inch, per 100 $8 00.
LATANIAS, 4-inch stuff, grown cold, well rooted, 3 to 5 character leaves, ready for 5-inch pots, per dozen, $4 00; per 100, $30.00.
PHŒNIX RECLINATA, 5-inch, good value at doz. $5.00.
GERANIUMS, 2½-inch, named sorts, per 100 $4.00. Our selection, per 100 $3.00.
CHRYSANTHEMUM, cut blooms ready about October 25th.
PANSY PLANTS, very fine, per 1000, from seed bed, $5.00.
BOUQUET GREEN now in stock, (order early), per 100 lbs. $5.50.

Vaughan's Seed Store,

148 W. Washington St., CHICAGO. 26 Barclay St., NEW YORK.

LILIUM ✳ CANDIDUM.

ANNUNCIATION OR MADONNA LILY.

Fine for Cutting.

10,000 Bulbs yet unsold; fine large ones, about 250 to case, sound and good To close out this surplus we quote them at $2.50 per 100; $20 per 1000; 5000 for $75.

Z. DE FOREST ELY & CO.,

THE BULB IMPORTERS,

1024 Market St., PHILADELPHIA, PA.



Mention American Florist.

THE "LOCKLAND"

Sash Bars ✳ ✳ ✳

ARE ALWAYS SATISFACTORY.

This cut represents our improved Clipper Bar for Butted Glass roof—putty to be used under glass only.

GUTTER MATERIAL, RIDGES, SASH, ETC.

The finest CLEAR CYPRESS used.

Write for circulars and estimates. . . .

LOCKLAND LUMBER CO.

Lockland, O.

Forcing Roses.

A stock of the best varieies always on hand.

M. A. HUNT, Terre Haute, Ind.

Mention American Florist.

10,000

JACQ ROSE PLANTS

From open ground, 1 and 2 year old, on their own roots, well branched.

2 feet high	$10.00 per 100
2 to 2½ feet high	12 00 "
3 to 4 feet high	15.00 "

Sample of 8 for $1.00 in advance.

JORDAN FLORAL CO.,

706 OLIVE ST., ST. LOUIS, MO.

DO YOU WANT an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our trade directory and reference book.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

ROSES.

Fine healthy stock. Per 100 P. 1000

Perles, Mermets, The Bride, Sunset, Niphetos, Bon Silene, Souv. d'un Ami, Duchess of Albany, Mme. Cusin, Mme. de Watteville, from 3-in. pots..... $6.00 $50.00

CARNATIONS.

Fine, healthy stock.

PURITAN, best white, early and productive. **Aurora, Grace Darling, Constance, W. F. Dreer, J. R. Freeman, Portia, The Century, John McCullough, Orange Blossom.**

Price, 1st size, $8.00 per 100; $70 00 per 1000. 2nd size, $6.00 per 100; $50.00 per 1000.

Daybreak, Pearl, Crimson Coronet. Price, $10.00 per 100.

NOTE.—Our carnations have been kept sprayed and are in fine, healthy condition.

SMILAX, from 2¼-inch pots..... 2.50 20.00

Lots of other Fine Stock.

Send for new list.

WOOD BROTHERS,
Fishkill, N. Y.

Mention American Florist.

FIELD-GROWN
CARNATIONS

MRS. FISHER, MRS. CARNEGIE,

and a general line of other standard sorts and new varieties. Fine, healthy plants, $5.00 to $7.00 per hundred.

CASH WITH ORDER.

Fred. Bürkii,

Bellevue, Allegheny Co., Pa.

500,000 PANSIES

The Jennings Strain of large flowering and Fancy Pansies can be had in any quantity wanted up to Jan. 1st. They are the leading strain to-day, more being sold than any other in the market. Plants are field-grown and are very fine and stocky. Large, medium or small, one price 60 cts. 100 by mail; by express 1000 $5, 5000 $20, 10,000 $35, and plenty of extra plants gratis to help pay express. Yellow and white in separate colors if desired, same price. Florists try this strain of pansies. There is money in it. Only small plants by mail.

PANSY SEED—Pure white, yellow, or mixed, $1.00 per packet of 2500 seeds.

4,000 fine field-grown CARNATIONS, sold cheap to clean out. Send for prices.

ADDRESS **E. B. JENNINGS,**
WHOLESALE PANSY GROWER,
Lock box 254 **SOUTHPORT, CONN.**

Best German Pansies.

From seed bench; strong plants in 50 sorts, 75 cents per 100; $5.00 per 1000.

JOHN P. TONNER,
45 Lake St., CHICAGO, ILL.

Greenhouses at Mont Clare.

Orders received in English, German and Danish.

VIOLETS.

1000 Marie Louise, 3-in. pot-grown, $3.50 per 100. A few thousand frame-grown, healthy, strong plants, at $2.50 per 100, $22.00 per 1000.

Swanley White and Single Blue. Plants at $2.25 per 100. Ready now. Cash with order.

ADDRESS **M. TRITSCHLER,**
NASHVILLE, TENN.

SUPERB PANSIES.

My "Rainbow Mixture"

is a combination of the very best strains in existence, and is sure to give satisfaction. Young plants 65 cents per 100 by mail; $5.00 per 1000 by express. Cash with order or C. O. D.

GEORGE CREIGHTON, Poughkeepsie, N. Y.

	Per 100	Per 1000
PANSY PLANTS, by mail.	$.60	$5.00
" " by express.	.50	3.00
AMPELOPSIS VEITCHII, 12-18 in.	4.00	
" " 2½ to 3 feet,	5.00 (strong.)	

Or will exchange any of above for stock needed.

JOHN J. CONNELLY, Bryn Mawr, Pa.

Field-Grown Carnation Plants.

We still have a few thousand extra fine healthy plants of the following varieties:

Portia, Garfield, Mrs. F. Mangold, Rosalind, Mrs. Carnegie.

PRICE, $5.00 PER 100.

ROSES. Bon Silene, Safrano, 4-inch pots . . . $10 00 per 100
Bon Silene, Safrano, Mermet, Perle, 3-in. pots, 7.00 per 100

J. L. DILLON, Bloomsburg, Pa.

We Have

A FEW HUNDRED EACH

MRS. FISHER.....	$ 6.00 per 100
AURORA.....	12.00 "
PURITAN.....	10 00 "
GOLDEN GATE.....	5.00 "

EDW. SWAYNE,
Kennett Square, Pa.

40,000 Carnations.

FIELD-GROWN. FREE FROM RUST. Per 100
ALL SOLD EXCEPT

1000 Grace Wilder.	$ 5.00
1000 Portia	5.00
500 Tidal Wave	5.00
1000 Orange Blossom	4 00
3000 Hinze's White	4.00

Also extra fine strain of Pansies. Cold frame size..... per 1000 $5.00; .65

CASH WITH ORDER.

Address **GEO. B. WHITEHEAD,**
Lock Box 116. **Greens Farms, Conn.**

ASPARAGUS PLUMOSUS NANUS, good plants, from 4-inch pots $20 per 100

ASPIDISTRA, variegated. A few fine plants, 5 and 6-inch pots $4 per dozen

CLIVIA, from fine new European varieties, young plants, 4-inch pots $2 per dozen

EUCHARIS GRANDIFLORA, bulbs 5 to 6 in. circ., with healthy leaves. $3 per dozen

EULALIA UNIVITTATA. . . .$2 per 100; $15 per 1000

ARUNDO DONAX, variegated, strong roots, $2 per dozen. $15 per 100

IRIS GERMANICA, a fine pure white sort, perfectly hardy $10 per 100

PAEONIES, double white and double pink, two of the best, mixed $12 per 100

Any of the above will be sent on receipt of price with order.

ALEX. SCOTT,
Balto. Co., Lauraville, Md.

PALMS.

150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

Address **GEORGE WITTBOLD,**
1708 N. Halsted St., CHICAGO.

You Will all Want

The New Yellow Coleus GOLDEN CROWN,
As it takes all other yellows down;
And will soon be all the go,
Because so very easy to grow.

There is nothing **Pale** or **Weak** about it. You **can't afford** to run without it; $3.00 per doz. Orders booked now for delivery November 1st, or as soon as ready. Or Gibson's beautiful scented Hybrid Pansies, 2000 seeds $1 00. Or the finest Double Fringed Petunia (Dreer's Strain), hybridized by hand, 1000 seeds $1 50. Snow Crest Daisy, $5.00 per 100. Other specialties later. Or extra large mixed Freesia Bulbs, $1.00 per 100; 2nd size 50 cts., and small bulbs 25 cts. per 100. Cash with order please.

Address **J. C. GIBSON, Woodbury, N. J.**

When writing to any of the advertisers on this page please mention the American Florist.

CARNATIONS

Strong, healthy, field-grown plants.

PORTIA	$ 6 00 per 100
LIZZIE McGOWAN	6 00 "
GRACE WILDER	6 00 "
TIDAL WAVE	6 00 "
FRED. DORNER	7 00 "
GARFIELD	7 00 "
ANNA WEBB	8 00 "
AURORA, fine new pink	8 00 "
NELLIE LEWIS, new	10 00 "
DAYBREAK	12 00 "
MARIE LOUISE VIOLETS	4 00 "

ADDRESS **N. S. GRIFFITH,**
Jackson Co. INDEPENDENCE, MO.

Independence is well located for shipping, being 8 miles East of Kansas City, Mo.

FIELD-GROWN
CARNATIONS

2000 Daybreak	per 100	$10.00
500 Mangold	"	5.00
500 Harrison	"	5.00
5000 Hinze's	"	5.00
1000 Garfield	"	5.00

VIOLETS. 5,000 Marie Louise, per 100, $5.00. 10 per cent. discount for cash with order.

NATHAN SMITH & SON,
167 W. Maumee St., Adrian, Mich.

IT COSTS NO MORE TO

GROW GOOD CARNATIONS

THAN TO GROW POOR ONES.

We have a good stock of field-grown Carnations of all the best varieties. Send for price list.

Geo. Hancock,
GRAND HAVEN, MICH.

2000 FIELD-GROWN CARNATIONS

Best winter blooming sorts; fine plants, full of buds, at $8.00 per 100.

The same from 5 and 6-inch pots, $12.00 per 100. Cash with order.

☞Plants shipped same day orders are received.

HENRY SMITH FLORAL CO.,
130 Monroe Street, **GRAND RAPIDS, MICH.**

SILVER SPRAY.

We have a surplus of fine, strong, field-grown plants of Silver Spray Carnations which we will sell at $6.00 per hundred.

Peter Reinberg.
51 Wabash Ave., CHICAGO.

FIELD GROWN CARNATIONS.

Fine healthy plants for **Winter Bloom.**

W. R. SHELMIRE,
CHESTER CO., AVONDALE, PA.
Send for Circular.

Carnations.

Only a few field-grown plants remaining. Good plants and good kinds.

C. J. PENNOCK,
THE PINES. **KENNETT SQUARE, Chester Co., PA.**

St. Paul, Minn.

Fall trade is opening up poorly, "hard times" being at the bottom of it. Dry weather and killing frosts took care of all outside flowers some three weeks since. Florists depend mainly on funeral work at present, but we hope soon to see a brightening trade.

Some of the department stores here and in Minneapolis have "flower days," selling at wholesale prices; it tends to dispose of the surplus while not materially affecting the regular retail trade.

Roses and carnations are about the only flowers now being cut. Tuberoses are not grown to any great extent. They never thrive successfully as an outdoor flower in this latitude, while the low prices at which they sell do not warrant their being grown inside.

There is an ever increasing demand in this city for "house plants" and rarely if ever do our florists have a surplus that cannot be disposed of. Ten years ago two or three small greenhouses supplied the entire trade in cut flowers and plants; now there are a score or more, some of them like May's containing upwards of 100,000 square feet of glass. And still their capacity is taxed to the utmost.

The city owns greenhouses of its own made of iron and glass, very substantial, they being under the direct control and supervision of Mr. Mussbaumer, superintendent of parks. All bedding plants for the parks are grown there and the fine effect produced in the bedding in the city parks this summer was a revelation to many, the display at Como being especially notable.

Coal bills are an all important and expensive item of the florists. Nearly all here use a Mansfield or Youghegheny grade for steam heating, which seems to be used more than hot water. Last winter was an exceptionally long and severe one and had it not been for the unusually good trade that followed in the spring some of our brethren would have been stranded.

Carnations are all planted in benches, likewise violets. Roses are coming on in fine shape, though damp, cloudy weather of late has retarded them somewhat. Chrysanthemums are in excellent condition and the first will be in in a few days. No chrysanthemum show has been announced and the committee who have the matter in charge will most likely recommend that none be held. FELIX.

PANSIES.

Best mixture of German bedding varieties now ready, per 1000 $5.00; per 100 60c.
We have also separate colors, ready in two weeks.

BRAUER & RICHTER,
McCONNELSVILLE, OHIO.

ASPARAGUS PLUMOSUS NANUS.

Well established, 4-inch pot plants, $20 per 100.

JOSEPH KIFT,
Chester Co., WEST CHESTER, PA.

CLEMATIS.

Large flowering, colors in variety, double and single, strong blooming plants. Plenty of Jackmanni and Henryi, best purple and white, $3.00 per dozen; $20.00 per 100. Send for list.
CYCLAMEN persicum splendens, bloomiug bulbs, $8.00 per 100.
Snowflake Daisy, double white, $1.00 per 100.
Longfellow Daisy, double red, $1.00 per 100.
F. A. BALLER, Bloomington, Ill.

EASTER LILIES A FEW THOUSAND LEFT.

Have you Room for some? Prices low to Close Out.

	Per 100	Per 1000	Per 10,000
L. HARRISII, 5x7	$2 72	$25 00	$220 00
" 7x9	5 50	50 00	450 00
" 9x11	12 00		
" 11x13	20 00		
L. LONGIFLORUM, 5x7	3 00	25 00	220 00
" 7x9	5 50	50 00	450 00

Z. DE FOREST ELY & CO.,
THE BULB IMPORTERS,
1024 Market St., PHILADELPHIA, PA.

HOW TO GROW CUT FLOWERS.

A PRACTICAL TREATISE ON
THE CULTIVATION OF THE ROSE,
And Other Floweriug Plauts for Cut Flowers, sent to any address upon receipt of $2.00.
M. A. HUNT, Terre Haute. Ind.

PANSIES.

THE PLANTS are getting very good this cool weather and are just the size for planting your frames. Samples free.
THE STRAIN is as good as I can make it—there is none better, may be none as good. A trial is the best evidence. Price, 75 cts. per 100; $3.00 per 500, delivery free, or $5.00 per 1000, you to pay the delivery.
GERANIUMS, Rooted Cuttings, from outdoor plants, all first-class varieties and good bedders. Price, in mixture $10.00 per 1000, in separate colors $12.00 per 1000; 50 cts. per 100 extra by the 100. Cash with the order or C. O. D.
L. B. 496. ALBERT M. HERR, LANCASTER, PA.

FICUS · ELASTICA.

An extra large stock of fine, strong plants.
Write for special prices.
ANDORRA NURSERIES, Chestnut Hill, Philadelphia, Pa.

25,000 PEONIES.

IN ALL COLORS.	Per 100
PINKS, assorted	$10 00
OLD RED or CRIMSON	12 00
WHITES, assorted	15 00
DOUBLE TENUIFOLIUM	35 00
NAMED SORTS, assorted	15 00

Clematis, Iris Kæmpferi, Yucca filamentosa, and other hardy stock for florists' use.
Also a full line of
DUTCH AND FORCING BULBS
for fall planting.
THE JAMES KING SEED CO.
98 Lake Street, CHICAGO.
Mention American Florist.

PLANTS.

	Per 100
JASMINE G. Duke, 1000, 9 inches to 2 feet	$10 00
VIOLETS—500 Marie Louise, fine clumps	3 00
Russian, good clumps	3 00
BOUVARDIA A. Neuner, 500 3-inch pots	5.00
in 5-inch pots	8.00
450 mixed, fine plants	5.00
DRACÆNA INDIVISA, fine plants, in 4-in. and 5-inch pots, 2½ ft. high	$10.00 and 15.00

FRANCIS L. MORAT,
SOUTH LOUISVILLE, KY.

New, Rare and Beautiful Plants,
ETC., ETC.

A large collection of Hothouse and Greenhouse Plants, carefully grown, at low rates.
RARE AND BEAUTIFUL EVERGREENS, ORNAMENTAL TREES, SHRUBS, &c
ORCHIDS—a very extensive stock; East Indian, Mexican, Central and South American, etc.
Hardy Perennials, Pæonies, Phloxes, Japanese Iris, Roses, Clematis, etc. New and Standard Fruits, etc.
Catalogues on application.
JOHN SAUL, Washington, D. C.

CHOICE SWEET PEAS.

Being the largest growers of the above in the world the trade are invited to send a list of their requirements and secure low prices for Fall delivery.
SHERWOOD HALL NURSERY CO.
Menlo Park and San Francisco, Cal.

CHOICE STOCK FOR FLORISTS.

Acalypha tricolor, strong stocky plants, from bed, $10.00 per 100.
Sanchezia nobilis variegata, grand new bedding plant rivaling the croton, free grower, strong pot plants, $2.00 per dozen.
Echeveria secunda glauca, $2.00 per 100.
Cannas—A. Bouvier, J. D. Cabos, Capt. Suzzoni, Paul Marquant, $20.00 per 100. Cash.
WM. TRICKER, DONGAN HILLS NEW YORK.

Azalea Indica, fine plants, now on the way from Ghent; we offer **in original cases of fifty plants** assorted in the best market sorts, including Deutsche Perle, Mme. van der Cruysen, etc, etc., in two sizes: **the first** or about 10 to 12 in. diam. of crowns for $20 net the case; the second 12 to 14 in. diam. of crowns for $30 net the case of fifty.

Bulbs and Florists' Seeds of all kinds; for full detail see our trade list, mailed free to applicants. **Roman Hyacinths** and **Lily of the Valley Pips** our two great specialties. Prices for quantities quoted by correspondence.

Fenster Pappe, the new German substitute for glass on frames. For detail see previous advertisements. We furnish **original Rolls of about 110 yards for $9.00 net cash. Trial Rolls, enough to cover four sashes for $1.00 cash;** these latter will travel by express for little cost, weighing below 10 lbs. Southern growers should not fail to try these; they will find this a most useful article that has come to stay.

August Rölker & Sons,
136 & 138 W. 24th St., P. O. Station E. **New York.**

Ice Boxes
Made specially FOR **FLORISTS.**
Outside casings, ash, panelled ends, antique finish, walls lined with nonconducting material.
WITH GLASS FRONTS.
Two sizes carried in stock. For circular and prices address
JOHN P. TONNER,
In Cut Flower Exchange, 45 Lake St., CHICAGO.

H. BAYERSDORFER & CO.,
WHOLESALE
FLORISTS' SUPPLIES ONLY,
50 N. 4th Street,
PHILADELPHIA, PA.
Our new Catalogue is now out, free upon application.

MARSCHUETZ & CO.,
Florists' Supplies,
23 & 25 N. 4th St., PHILADELPHIA, PA.
Send for Catalogue.

HUNTINGTON SEED CO.
Florists' : Supplies,
66 E. WASHINGTON ST.,
INDIANAPOLIS, IND.
Standard Flower Pots, Dried Grasses, Fancy Baskets, Metal Designs. Trade Catalogue mailed free.

Phœnix rupicola.
This useful and beautiful Date Palm in EXTRA FINE PLANTS, growing in from 7 to 10-inch pots, from $3.50 to $7.50 each, according to size.
EDWIN LONSDALE, Wyndmoor,
STATION "G," (Chestnut Hill P. O.) PHILADELPHIA.

Always mention the American Florist when writing to advertisers.

HAVE YOU MILDEW IN YOUR GREENHOUSES?



On **ROSES** and other Plants **sure.** Used by scores of commercial growers.

SOLD BY THE SEEDSMEN.

Free sample if you will pay freight. Apply to

HAMMOND'S PAINT AND SLUG-SHOT WORKS,
Fishkill-on-Hudson, N. Y.

JOHN LAING & SONS
are now booking numerous orders for their
CELEBRATED BEGONIAS.
The quality is superior to last year. First Prizes have been awarded to us whenever exhibited this season. Also the Silver Cup (highest award) at the Great Temple Show. Gold Medal at Leicester, as well as the only Gold Medal awarded at the Earls Court Exhibition 1893. Innumerable Certificates have also been given to our BEGONIA NOVELTIES.
Prices of our immense stock, which are very moderate, considering the quality, mailed free, and catalogues.
JOHN LAING & SONS,
The Great Begonia Growers,
FOREST HILL, LONDON, S. E., ENGLAND.

Association "Flora"
BOSKOOP, HOLLAND
NURSERIES.
Roses, Clematis, Shrubs, Azaleas, Palms, Herbaceous Plants, Bulbs, Etc.
Catalogue on Application.
P. OUWERKERK,
206 Cambridge Ave., JERSEY CITY, N. J.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Florists and
FLOWER
15
Varieties of Pansy Seed
Trade Pkt, 500 Seeds, 10 cts.

MISS C. H. LIPPINCOTT, 319-23 SIXTH ST. S., MINNEAPOLIS, MINN.
My trade list of the choicest and most desirable kinds for Florists' use. Ready next month. Send for it. Will save you money.

Giant Trimardeau Pansy
500 Seeds 15 cts.
SEEDS
Market Gardeners

FOR SALE 10,000 CARNATIONS.
Good, strong, healthy plants, $6.00 per 100, such as Hinze's White, Wm. Swayne, W. F. Dreer, Wanderer, Morning Ray, Golden Gate, Springfield, Seawau, Sunrise, Portia. Address
I. LARKIN, Toughkenamon, Pa.

Always mention the American Florist when writing to advertisers.

Baltimore.

The club has become a bird of passage in its flights from one home to another, but each change seems to be for the better. The last meeting was held in the richly decorated and exceedingly comfortable hall of the Royal Arcanum building, Saratoga, opposite Liberty street. The largest attendance in many moons was there, and all seemed perfectly satisfied with the quiet and elegance of the new home. Let us hope for no more changes until we change into a building of our own.

A question referred back to the club by the exhibition committee was the cause of a very animated and somewhat acrimonious debate. It was "shall holders of sale booths at the show be permittted to sell flowers grown outside the state?" From the bitter character of some of the remarks it seems as if this old and vexed question of selling will never be settled until we adopt the scheme proposed by a member a long time ago, viz.: Have a limited number of sale booths and sell the right at auction to use them for selling any cut flowers or plants during the exhibition.

The question box developed quite a number of interesting questions as usual. "What makes water blow out of greenhouse pipes?" was answered by Mr. Ekas, who declared that "if piping were properly put in water could never blow out of the expansion tank." Several members differed from him, so the question was not decided.

Chrysanthemums are appearing here and there in the store windows. Violets are also to be had in small quantities. Cosmos and dahlias are in in unlimited quantities and at unlimited prices as far as cheapness goes. Perles and La France are plentiful at three cents.

Mr. Henry Wiedey is building a greenhouse on the York Road near the city limits.

Our librarian, Mr. P. Welch, is not saying much, but his "mums" will talk for him by and by. The long desired rain has come at last and

A little bird had it the other day that Mr. John Donn is going to hold a big chrysanthemum show of his own at Lakeside Park. MACK.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

STANDARD FLOWER POTS.

Price List.

2 -inch,	Per 1000 $3.25	7-inch,	Per 100 $ 3.50
2¼-inch,	" 3.50	8-inch,	" 5.00
2½-inch,	" 4.00	9-inch,	" 7.50
3 -inch,	" 5.00	10-inch,	" 10.00
3½-inch,	" 7.25	11-inch,	" 15 00
4 -inch,	" 9.00	12-inch,	" 20.00
5 -inch,	" 13.80	14-inch,	" 40.00
6 -inch,	" 22.00	16-inch,	" 75.00

Terms cash, f. o. b. Address

HILFINGER BROS. POTTERY, Fort Edward, N. Y.

August Rolker & Sons, 136 & 138 W. 24th St., New York City, Agents for New York and vicinity.

EVANS' IMPROVED

CHALLENGE VENTILATING APPARATUS

Write for Illustrated Catalogue.

QUAKER CITY MACHINE WORKS, Richmond, Ind.

FLORISTS' HOSE,

Made by E. W. Holt, member of the Society of American Florists.

Goodyear Rubber Store,

2 W. 14TH ST. NEW YORK.

CAN SHIP AT ONCE!

HOT-BED SASH.

3 feet by 6 feet 1¾ inches thick, for three rows 10-inch glass, *$12.00 per dozen,* f. o. b. Lockland.

These sash are made of **Clear Cypress,** and warranted first-class in every way; are made up, but not painted or glazed.

CASH WITH ORDER.

LOCKLAND LUMBER CO., Lockland, O.

"Standard" Flower Pots.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Pottery Company,

BRANCH WAREHOUSES: 713, 715, 717 & 719 Wharton St., Philadelphia, Pa.
Randolph Ave. and Union St., Jersey City, N. J.
Jackson Ave. and Pearson St., Long Island City, L. I.

STANDARD FLOWER POTS

Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.

A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.

We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

Send for price list and samples and we know you will give us an order.

SYRACUSE POTTERY CO. OFFICE: 403 North Salina Street, SYRACUSE, N. Y.

STANDARD FLOWER POTS.

OLD RELIABLE MAKE OF

ELVERSON, SHERWOOD & BARKER.

Write for Catalogue and Price List.

PITTSBURGH CLAY MFG. CO. New Brighton, Pa.

STANDARD FLOWER POTS

Our new **Pottery,** new **Machinery,** the very **best Clay** in the **Country,** and our new **Patent Kilns,** all combined, make the **best Standard Pot in the market.** Send for price list.

PARMENTER MF'G COMPANY,

GEORGE MESSINGER, Manager. East Brookfield, Mass.

D. C. SCHOFIELD & CO.,

New Brighton, Pa.,

are in their new factory, manufacturing, this month, six times as many "STANDARD" FLOWER POTS as they made last season, in a month.

WRITE FOR PRICES.

Double White Primulas.

$6.00 and $8 00 per 100.

CASH WITH ORDER.

S. TAPLIN,

962 FORT ST., W., DETROIT, MICH.

Sweet Pea Seed

MISS BLANCHE FERRY. . .	$.60 lb.
QUEEN OF ENGLAND . . .	1.50 lb.
BUTTERFLY, ...	.60 lb.
MIXED	.45 lb.

Cash with order.

LAKE GENEVA FLORAL CO.,

LAKE GENEVA, WISCONSIN

TO TAKE PLACE OF WIND MILLS

HOT AIR PUMPING ENGINES

A Windmill

Is unreliable because it depends upon the elements for its power; hydraulic rams also depend upon favorable conditions and waste as much water as they secure. Steam pumps require skill and hand pumps demand labor and time. The

DE LAMATER-RIDER OR DE LAMATER-ERICSSON Hot-Air Pumping Engines

are especially designed for pumping water, and from shallow streams or any kind of well. They are simple, safe and reliable, require no steam and have no valves. They require very little heat to operate them, and can be arranged for any kind of fuel.

Send for illustrated catalogue to

THE DE LAMATER IRON WORKS,
87 South Fifth Av.,
NEW YORK, N. Y.

CUTS!



WOOD ENGRAVING,
PHOTO-ENGRAVING,
WAX ENGRAVING,
ZINC ETCHING,
HALF-TONE,
DESIGNING.

MANZ & CO.,
183 Monroe Street, CHICAGO. ENGRAVERS.

J. N. STRUCK & BRO.

Manufacturers of

• CYPRESS •
Greenhouse Material,

LOUISVILLE, KY.

THE CHAMPION Automatic Ventilator.

The cheapest, easiest to operate, and by far the **best machine** in the market. Don't buy a Ventilator until you have seen my illustrated descriptive circular, which will be sent you free, giving prices, etc. Also **Champion Soil Pulverizer and Sifter.**

Address, **E. E. WOLF,**
Box 114. SPRINGFIELD, O.

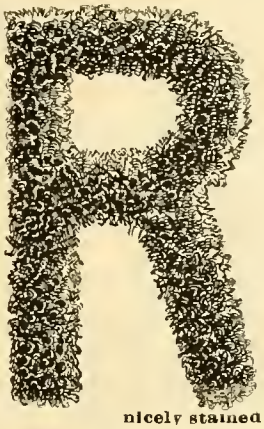
Send orders for . . .

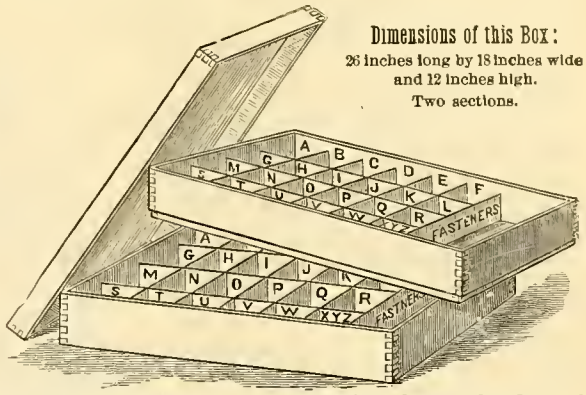
CLEAR CYPRESS
Greenhouse Material

from bottom of gutter up.
Correspondence solicited. Estimates cheerfully furnished.

LYMAN FELHEIM, ERIE, PA.

Please mention the American Florist every time you write any of the advertisers on this page.





Dimensions of this Box:
26 inches long by 18 inches wide and 12 inches high.
Two sections.

With an order for 500 letters, we furnish a box made of wood nicely stained and varnished, such as is represented in the cut.

BOSTON FLORIST LETTER CO.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1½-in. and 2-in. 2.00 per 100. Patent fastener with each letter.

OUR NEW SCRIPT LETTER, $4.00 per 100.

N. F. McCARTHY, Treas. & Mangr. | Address 13 Green St., **Boston, Mass.**

Address all correspondence to 1 Music Hall Place.

We have a new **FASTENER** which we consider a decided success. Any customers having old style fasteners which they wish to exchange, can do so without additional cost by writing us.

AGENTS:

Marschuetz & Co., 25 N. 4th St., Phila., Pa.
A. Rolker & Sons, New York.
F. E. McAllister, 22 Dey St., New York.
A. D. Perry & Co., 33 Warren St, Syracuse, New York.
Ernst Kaufmann & Co., 113 N. 4th St., Phila.
H. Bayersdorfer & Co., Philadelphia, Pa.
A. C. Kendal, 115 Ontario St., Cleveland, O.
J. A. Simmers, Toronto, Ont. Agent for Canada.
E. H. Hunt, 79 Lake St., Chicago, Ill.
Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.
H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O
T. W. Wood & Sons, 6th and Marshall Sts. Richmond, Va.
Jas. Vick's Sons, Rochester, N. Y.
C. A. Kuehn, 1122 Pine St., St. Louis, Mo,
D. B. Long, Buffalo, New York.
C. F. Huntington & Co, Indianapolis, Ind.
Z. De Forest Ely & Co., 1024 Market St., Philadelphia, Pa.

These Letters are handled by all the Wholesalers in Boston.

WARNING.

A party in Williamsport, Pa., named Chas. E. Montgomery, is making and offering for sale letters which are an infringement upon our patent, and are much inferior to those manufactured by us. We have notified them of suits unless they desist at once. Buy no letters except through our authorized agents.

BOSTON FLORIST LETTER CO., 1 Music Hall Place, Boston, Mass.


FANCY.


DAGGER.

EVERGREEN CUT FERNS

ESPECIALLY FOR FLORISTS' USE.

$1.25 per Thousand Ferns.



IN LOTS OF 5,000 AND UPWARDS, $1.00 PER 1000. Ferns furnished the year round. Special attention given to supplying the Wholesale Trade.

BOUQUET GREEN For Holiday Trade, $2.00 per barrel (thirty pounds); or $6.00 per hundred pounds. Special reduction in express rates.

SPHAGNUM MOSS a specialty. Long, clean fibre, dry or green, $1 per barrel, or six bbls. for $5. Write for terms on large lots. Terms cash, or goods will be sent C. O. D.

CHRISTMAS TREES. American White Spruce, much better shape and color than the Blue Spruce, also Balsam Fir from 3 to 30 feet high. Special attention to supplying carload lots. Write for price list and terms.

L. B. BRAGUE, Hinsdale, Mass.

City Stand During the Holidays: 47th St and Lexington Ave., NEW YORK.

HEADQUARTERS for CHRISTMAS TREES.

Selected Blue Spruce and Balsam Fir, in car lots, at BOTTOM PRICES.

EARLY CORRESPONDENCE SOLICITED.

W. D. Boynton, *Nurseryman,* **Shiocton, Wis.**

CATALOGUE PRINTING. ELECTROTYPING.

Done with expert ability for Florists Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.,
HARRISBURG, PA.

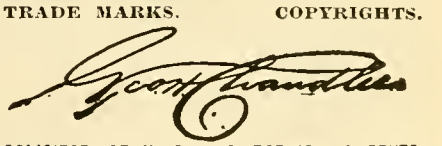
MOSS.

CHEAP FOR WINTER. . . .

Fine Moss for Funeral Work and Orchids. 60c. and 75c. per pound.

A. K. Savacool,
EAST STROUDSBURG, PA.
Mention American Florist

TRADE MARKS. COPYRIGHTS.



SOLICITOR OF U. S. AND FOREIGN PATENTS,
Atlantic Building, Washington, D. C.
(Send sketch or model for free examination as to patentability.

Mention American Florist.

E. G. HILL & CO.,
Wholesale Florists
RICHMOND, INDIANA.

Toronto.

Business has brightened up considerably during the last few days, although the weather has not changed much and is still mild and balmy at this date (14th). This appears to be a particularly favorable time of year for dying and getting married, and "it is an ill wind that blows nobody any good."

I wish to draw the attention of those interested to an error in the prize list of the chrysanthemum show to be held here from November 21 to 24. The mistake occurs in regulation 4, in which "November 7" should read *November 21*. The date of the show was changed, but this seems to have escaped the eagle eye of the secretary.

The weather having been so fine this fall chrysanthemums are getting ahead rapidly and already some few flowers are to be seen. It is to be feared that many of the early sorts will be over before the show if it keeps so mild much longer, as it is impossible to hold them back even with all ventilators open, but there is no fear but that there will be any amount of flowers and plants just in right order for showing even as late as November 21. It has always been remarked at former shows that if it had only been a week or two later such and such a sort would have been in better trim and Mr. So and So could have made a better show.

At a meeting of the combined chrysanthemum and executive committees of the G. and F. Association the other night all the necessary arrangements as to advertising, decoration, band, flower booth, superintendent, judges, price of admission, etc., were decided on.

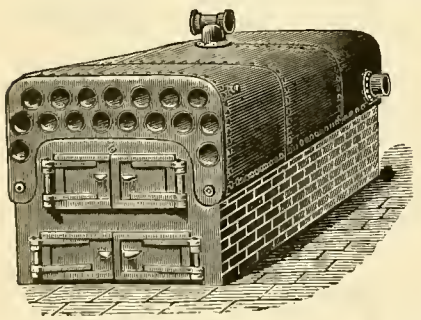
Everyone who has not already been there is making tracks for the World's Fair now. E.

ESTABLISHED 1854.

DEVINE'S BOILER WORKS.

THE FLAT TOP TYPE

Wrought Iron Hot Water Boilers



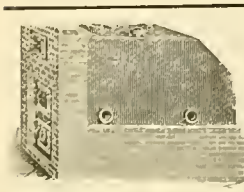
Capacity from 350 to 10,000 feet of four-inch pipe. SEND FOR NEW LIST.

FRANK DAN BLISH, Att'y,

OFFICE, 189 STATE STREET.

WORKS, 56th & WALLACE STREETS,

CHICAGO.



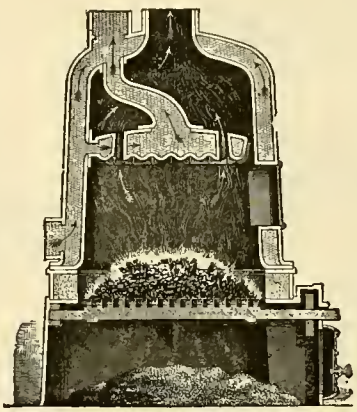
GREEN-HOUSE HEATING.

MYERS & CO.

1518 & 1520 S. 9th St., PHILADELPHIA.

Send for catalogue and price list.

Always mention the AMERICAN FLORIST when writing to advertisers.



JOHN A. SCOLLAY,

74 & 76 MYRTLE AVE.,

BROOKLYN, N. Y.

GREENHOUSE HEATING

— AND —

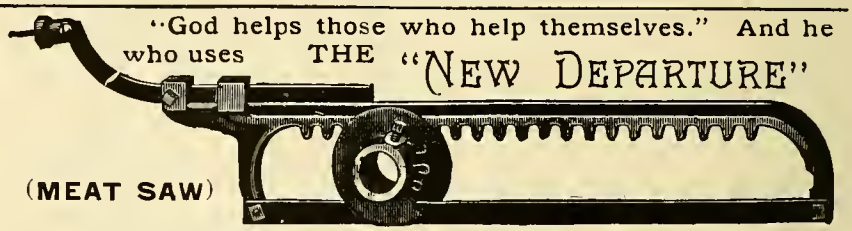
Ventilating Apparatus.

Patentee and Manufacturer of

HOT WATER BOILERS,
GREENHOUSE PIPE,
PIPE FITTINGS,
VALVES, TANKS, ETC.

☞ Estimates of cost given, and Illustrated Catalogue furnished on application.

"God helps those who help themselves." And he who uses THE "NEW DEPARTURE"



(MEAT SAW)

VENTILATING APPLIANCE

helps himself and those who help him in his labors, and is therefore doubly blessed. Send for price and description.

J. D. CARMODY, Evansville, Ind.

Or call and see the man and machine at his greenhouse office, located on the lawn west front of Horticultural Building, World's Fair grounds, Chicago, Ill.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO,

NATURAL GAS MADE GLASS

FOR GREENHOUSES.

Write for latest prices.

FRENCH GLASS For CONSERVATORIES, ROSE HOUSES, Etc. Etc.

VANHORNE, GRIFFEN & CO.,

Importers of PLATE and WINDOW GLASS. Manufacturers of BENT GLASS and FRENCH MIRRORS.

131-133-135-137 FRANKLIN STREET, NEW YORK.

Note—Imported Glass is used in the best grade of Greenhouse building

GLASS

which is absolutely perfect for modern greenhouse construction.

ROCK BOTTOM PRICES.

Send for Estimate. Satisfaction Guaranteed

REED GLASS CO.

65 WARREN STREET and
46, 48, & 50 COLLEGE PLACE,

—NEW YORK CITY.—

THE GREAT ANTIPEST.

For particulars, see next week.

R. W. CARMAN, GEN'L AGT.,

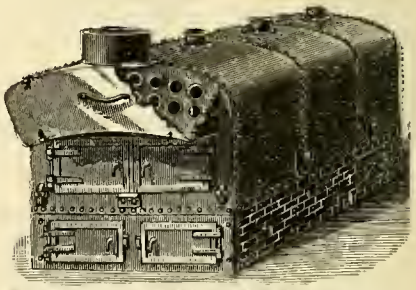
291 Amity Street, FLUSHING, Queens Co., N. Y.

KROESCHELL BROS.

IMPROVED

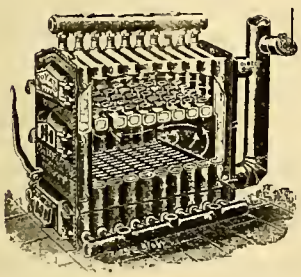
Greenhouse × Boiler,

41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around front, sides and back). Write for information.

ROYAL HEATERS
TRADE MARK
UTICA, N.Y.



HOT WATER, STEAM.

The right kind of Boilers for Greenhouses.

HART & CROUSE,

UTICA, N. Y.

Increase Your Business

by fostering an interest in plants and flowers among the people in your vicinity. You can best do this by getting subscribers to

GARDENING . . .

which tells people how to get the most satisfaction out of their gardens, and stimulates them to enlarge and extend their gardening operations.

$1.00 A YEAR is the subscription price of this paper, which is issued twice a month, is handsomely and truthfully illustrated, is thoroughly practical, absolutely free from wind and gush and grinds no axes for anyone.

SPECIAL LOW RATE to florists who will act as agents. We want an agent in every city and town in America. Write for terms now to

THE GARDENING CO.
Monon Building, CHICAGO.

HAIL LOCK THE DOOR BEFORE THE HORSE IS STOLEN. DO IT NOW.
JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

When writing to any of the advertisers on this page please mention the American Florist.

Victory! Victory! Victory!

The only Certificate of Merit awarded for ventilating apparatus at the St. Louis Convention was to the

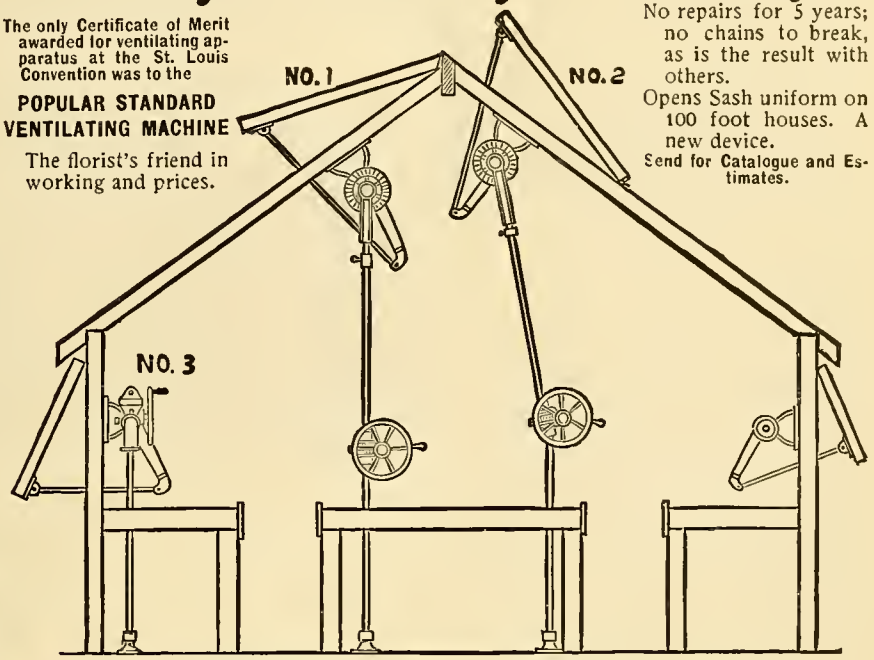
POPULAR STANDARD VENTILATING MACHINE

The florist's friend in working and prices.

No repairs for 5 years; no chains to break, as is the result with others.

Opens Sash uniform on 100 foot houses. A new device.

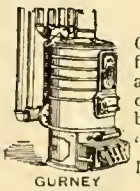
Send for Catalogue and Estimates.



E. HIPPARD, YOUNGSTOWN, OHIO.

Gurney

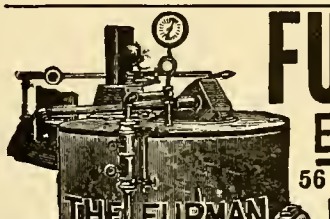
HOT WATER HEATERS AND RADIATORS FOR HEATING Dwellings, Public Buildings, Etc. BY HOT WATER CIRCULATION.


GURNEY

The marked superiority of the Gurney Heaters which is manifested in all severe trials, is now a matter of history. There is no question about their being the best. For reasons, see our book "*How Best to Heat Our Homes.*" It is free.

Gurney Hot Water Heater Co.
HEAD OFFICE:
163 Franklin St., Boston, Mass.
BRANCH OFFICE:
59 Wabash Ave., Chicago, Ill.
SELLING AGENCIES:
Johnson & Co., 71 John St., New York.
J. C. F. Fraehsel, 246 Arch St., Philadelphia.


DOUBLE CROWN.



FURMAN BOILERS

Economical—Substantial—Safe.

56 STYLES AND SIZES—BURNS HARD OR SOFT COAL.

Modern Hot-Water Heating

These Boilers have a high reputation for Staunchness, Durability and Safety, and are GREAT COAL SAVERS. Minimum Friction and Maximum Velocity only obtained by VERTICAL WATER CIRCULATION. Send for new 150-page book giving full particulars and a great deal of valuable information on modern Heating and Ventilation, with plans and tables for correct hot-water work. Mailed free.

Address HERENDEEN MFG. CO., 26 Vine Street, GENEVA, N. Y.

ESTABLISHED 1866.

FLORISTS WIRE DESIGNS

MANUFACTURED BY

N. STEFFENS

335 EAST 21ST ST. NEW YORK.

D. H. ROBERTS,
159 & 161 South Fifth Ave., New York.
NATURAL GAS MADE GLASS,
for Rose Houses, Conservatories, etc., etc.
Look at our World's Fair Exhibit in Horticultural Building.

FLORAL DESIGNS
The Cut Flower Worker's Friend. Fine book of 160 pages. Send $3.50 for it, to
J. HORACE McFARLAND, Harrisburg, Pa.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Index to Advertisers.

Abel C C & Co.....242
Adv. Rates, etc.....240
American Boiler Co....252
Andorra Nurseries.....246
Baller F A 246
Barnard W W & Co....242
Bayersdorfer H & Co..247
Berger H H & Co.....242
Bonsall Jos E & Son...241
Boston Letter Co 249
Boynton W D.....249
Brackenridge & Co.....243
Brague L B.....249
Brauer & Richter.... 246
Brown & Canfield.....244
Burki Fred.....245
Burns & Raynor.....241
Burrow J G.....243
Burton John..... 244
Carman R W.....250
Carmody J D..... 250
Catlin M R Co.....239
Chandlee Geo H.....249
Chicago Cut Flower Ex240
Connelly John J.....245
Corbrey T J.....240 241
Creighton Geo.....245
Deamud J B & Co.....240
De Lamater Iron Wks.249
Devine's Boiler Wks...250
Dillon J L.....245
Dreer H A 242
Elliott W H.....240
Ellison Wm.....241
Ely Z De Forest & Co.. 243 244 246
Falkiner.....242
Felheim Lyman.....249
Forstermann I. 243
Gardening Co The....251
Gibson J C.....245
Gonzalez & Co..... .242
Goodyear Rubber Store 248
Griffith N S..... 245
Gurney Heater Co....251
Hall Ass'n.....251
Hammond Benj.....247
Hancock Geo 245
Hart James.....241
Hart Michael A.....241
Hart & Crouse.....251
Hartford H E.....240
Herendeen Mfg Co....251
Herr Albert M.....246
Hews A H & Co.....248
Hilfinger Bros.....248
Hill E G & Co.....249
Hippard E 251
Hitchings & Co.....252
Hooker H M Co 250
Horan Edw C. 241
Hulsebosch Bros.....242
Hunt E H..... 241
Hunt M A..... 244 246
Hunter Frank D.....241
Huntington Seed Co...247
Jennings E B.....245
Joosten C H.....242
Jordan Floral Co.....244
Kennicott Bros.....241
Kift Joseph.....246
King Seed Co. 246
Kroeschell Bros 250
Kuehn C A..... 241
Laing John & Sons.... 247
Lake Geneva Floral Co248
Larkin Isaac.....247
La Roche & Stahl.....240
Lippincott Miss C H...247
Lockland Lumber Co... 244 248
Long Dan'l B.....240
Lonsdale Edwin.....247
Lord & Burnham Co...252
McCarthy N F & Co....241
McFarland J H.....251
McFarland J H Co....249
Manz J & Co.....249
Marschuetz & Co.....247
Memphis Floral Co....244
Meyer John C & Co ...252
Michel Plant & Bulb Co 243
Millang Bros.....241
Moffatt G J.....242
Moninger Jno C 252
Morat Francis L.....246
Murray S..... 239
Myers & Co.....250
Niles Centre Floral Co.241
Ouwerkerk P.....247
Parmenter Mfg Co.....248
Peck & Sutherland.....241
Pennock C J..... 245
Pennock Sam'l S.....240
Pierson F R Co.... 240 242
Pittsburg Clay Mfg Co.248
Quaker City Mach Co..248
Randall A L 241
Reck John 243
Reed Glass Co.....250
Reimschneider Ernst..242
Reinberg Peter.....245
Roberts D H.....251
Roehrs Theo..... 241
Rolker A & Sons.....247
Sander & Co. 243
Saul John..... 246
Savacool A K..... 249
Schofield D C & Co.....248
Scollay John A. 250
Scott Alex.....245
Shelmire W R.....245
Sheridan W F.....241
Sherwood Hall Nur Co.246
Siebrecht & Wadley....243
Situations, wants.....239
Smith H Floral Co.....245
Smith Nathan & Son...245
Steffens N.....251
Struck J N & Bro.....249
Sunderbruch H L.....241
Swayne Edward..... 245
Syracuse Pottery Co...248
Taplin S..... 248
Tonner John P.....245 247
Tricker Wm..... ..246
Tritschler M.....245
Van Horne Griffen & Co 250
Vaughan J C.. 244
Weathered's Sons T W.252
Weeber & Don..... 242
Welch Bros.....241
Whilldin Pot Co ..248
Whitehead Geo B.....245
Wight W P... 252
Wisconsin Flower Ex..240
Wittbold Geo.ge.....245
Wolf E E 249
Wood Bros.....245
Young John.....241
Young Thos Jr.....240

MILLBROOK, N. Y.—The Millbrook Horticultural Society will hold a chrysanthemum show November 14 and 15. Mr. L. Kennedy is secretary of the society.

YOU CAN never invest $2 to better advantage than in a copy of our trade directory and reference book.

CYPRESS GREENHOUSE MATERIAL

CLEAR CYPRESS BARS

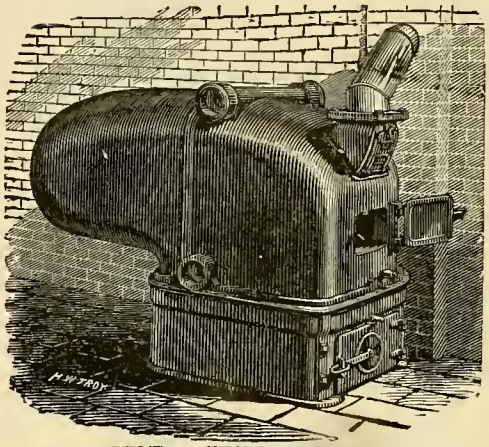
HOT BED AND VENTILATING SASH

JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

Mention American Florist.

GREENHOUSE HEATING AND VENTILATING

Horticultural Architecture and Building.



HITCHINGS & CO.

Established 1844.

233 Mercer St., New York.

FIVE PATTERNS OF BOILERS.

NINETEEN SIZES.

Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc, of Iron Frame Construction, Erected complete, or the Structural Iron Work shipped ready for erection.

Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Top.

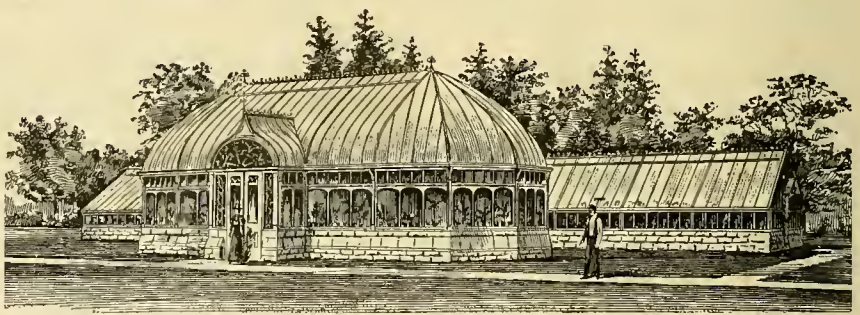
SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.

LORD & BURNHAM CO.

Horticultural Architects and Builders,

STEAM AND HOT WATER HEATING ENGINEERS.

Plans and estimates furnished on application.



Front view of a portion of our exhibit at the World's Fair.

. . . SEND FOUR CENTS POSTAGE FOR ILLUSTRATED CATALOGUE. . . .

LORD & BURNHAM CO., Irvington-on-Hudson, N. Y.

STEAM · AND · HOT · WATER · HEATERS

FOR

GREENHOUSE HEATING

156

DIFFERENT SIZES.

American Boiler Company.

BOSTON,	NEW YORK,	CHICAGO,	DENVER,	SAN FRANCISCO.
195 Ft. Hill Square.	94 Center St.	34-36 Dearborn St.	Mining Exchange Bldg.	80 Crocker Bldg.

THOS. W. WEATHERED'S SONS,

INCORPORATED.

Horticultural Architects and Hot Water Engineers

Send for Catalogue, enclosing 4 cents in stamps.

No. 244 Canal St., NEW YORK CITY.

THE PERFECT DRAINAGE

BENCH TILE

For circulars, etc., address

W. P. Wight, Upland Green Houses,

Send your business card. MADISON, N. J.

GREEN STRING

FOR STRINGING

SMILAX AND ASPARAGUS,

HAS BEEN SUPERSEDED BY SILKALINE.

JOHN C. MEYER & CO.,

289 Devonshire St., BOSTON, MASS.

For sale by all leading Florists' Supply Houses.

THE AMERICAN FLORIST

A WEEKLY JOURNAL FOR THE TRADE

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. IX. *CHICAGO AND NEW YORK, OCTOBER 26, 1893.* *No. 282*

THE AMERICAN FLORIST

Copyright 1893, by American Florist Company. Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.
322 Dearborn Street, Chicago.

Subscription, $1.00 a year. To Europe, $2.00.

Address all communications to

AMERICAN FLORIST COMPANY.
P. O. Drawer 164, CHICAGO.

Eastern Office: 67 Bromfield St., Boston.

SOCIETY OF AMERICAN FLORISTS.

WM. R. SMITH Washington, D. C., president; PROF. WM. TRELEASE, St. Louis, Mo., vice-president; WM. J. STEWART, 67 Bromfield St. Boston, Mass, secretary; M. A. HUNT, Terre Haute, Ind., treasurer.

The new officers, to be installed Jan. 1, 1894, are: J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; secretary and treasurer the same as for 1893. The next annual meeting will be held at Atlantic City, N. J., August, 1894.

CONTENTS.

World's Fair Chrysanthemum show. 253
The World's Fair 254
Overhanging trees 255
Carnations—Carnation notes 256
Cannas at the World's Fair (illus) 257
Notes by the way 257
A visit to Hinsdale, Ill 258
Chrysanthemum shows 258
Bed of Alphonse Bouvier cannas (illus) 259
Gardenias 259
Foreign notes 259
A palm leaf blight (illus) 260
New York 260
Philadelphia 260
A blight of the ivy (illus) 261
Boston 261
Chicago 262
Baltimore 262
Toronto 262
St. Paul 262
Obituary—J. B. Guillot 262
Tuberous begonias at the World's Fair (illus) . 263
Insects on the nelumbiums 263
Distributing liquid manure 263
The seed trade 266
News notes 266
Judging at the Toronto show 268
Recent legal decisions 270
Suggestion for telegraphic code 272
To combat grasshoppers 272
Cause of black spot 274

FROM ALL SECTIONS come reports of an unusually large crop of chrysanthemums of fine quality, and the exhibitions of 1893 will be unusually attractive. The improvement in the chrysanthemum during the past few years has been really wonderful and the final culmination seems not yet at hand. For years it has been predicted that the "chrysanthemum craze" was near its end, but up to date it is still growing and expanding. And we are inclined to believe that better cultural methods—more thorough understanding of the requirements of the plant—have assisted more than is generally supposed in bringing the flower to its present state of excellence. The fine new varieties would not be what they are if improvement in methods of culture had not kept step with the advances in other directions.

The World's Fair Chrysanthemum Show.

Our announcement in last issue is already bearing fruit, and from all points come assurances of assistance in making this exhibition what it should and must be. Cincinnati, Buffalo and Detroit will have no exhibitions this year and word has already been received that each of these cities will send a carload or more of exhibition plants and flowers to the World's Fair show. Growers around New York, Philadelphia and Boston have telegraphed Director Craig assurances of entries from those sections, and that the display will be a memorable one seems already assured. We hope to see every grower of exhibition plants and flowers represented and every introducer of new varieties here with his pets. An award of a medal and diploma to a new variety at this exhibition will mean a great deal, and the happy winner of such can offer his variety to the trade and the general public with the seal of approval of the best posted and most conscientious judges in America, and in a competition in which all the best growers will be represented.

Following is the premium list. Extra copies, in pamphlet form, and entry blanks and any further information desired, may be had on application to W. C. Egan, Sec'y, Horticultural Building, World's Fair, Chicago.

PREMIUMS.

All plants and flowers included in Sections I, II, III, IV and V must be in position for judges to pass upon by 11:30 a. m, opening day, November 4, 1893.

CUT FLOWERS—CHRYSANTHEMUMS.

All flowers must be exhibited on stems not less than twelve inches long and without artificial support.

SECTION I.

CLASS.		PREMIUMS. 1st	2d	3d
1	Vase of 50 blooms, one variety, white	$50	$35	$25
2	Vase of 50 blooms, one variety, yellow	50	35	25
3	Vase of 50 blooms, one variety, pink	50	35	25
4	Vase of 50 blooms, one variety, crimson	50	35	25
5	Vase of 50 blooms, one variety, bronze	50	35	25
6	Vase of 50 blooms, one variety, any other color	50	35	25

SECTION II.

7	Best 48 varieties, one flower of each	$50	$40	$25
8	" 25 " " " "	20	15	10
9	" 12 " " " "	10	7	5
10	" 24 Japanese, distinct, one flower of each	20	15	10
11	" 12 " " " " "	10	7	5
12	" 12 Chinese incurved	10	7	5
13	" 6 " "	5	3	2
14	" 12 Anemone, distinct varieties	10	7	5
15	" 6 " " "	5	3	2
16	" 12 single flowered, distinct varieties	8	5	3
17	" 5 " " " "	5	3	2

SECTION III.

18	Best 12 vases, 6 flowers of one variety in each vase, on stems not shorter than 18 inches	$50	$40	$30
19	" 6 vases, 12 flowers of one variety in each vase, on stems not shorter than 18 inches	50	40	30
20	" 1 vase of white, 12 flowers, on stems not shorter than 18 inches	10	8	6
21	" 1 vase of yellow, 12 flowers, on stems not shorter than 18 inches	10	8	6

CLASS.		PREMIUMS. 1st	2d	3d
22	Best 1 vase of pink, 12 flowers, on stems not shorter than 18 inches	$10	$8	$6
23	" 1 vase of crimson, 12 flowers, on stems not shorter than 18 inches	10	8	6
24	" 1 vase, any other color, 12 flowers, on stems not shorter than 18 inches	10	8	6
25	" 12 varieties, 1 flower of each, of American origin, long stems	10	8	6
26	" 12 varieties, 1 flower of each, of European origin, on long stems	10	8	6
27	" 12 varieties, 1 flower of each, of Japanese origin, on long stems	10	8	6

SECTION IV.

CHRYSANTHEMUM PLANTS.

28	Best 6 specimen plants	$100	$75	$50
29	" 3 " "	50	35	25
30	" specimen plant, white	20	15	10
31	" " " yellow	20	15	10
32	" " " pink	20	15	10
33	" " " crimson	20	15	10
34	" group plants, arranged for effect on 150 square feet of space, any variety or varieties	75	60	50
35	" group plants, yellow, on 100 square feet of space	50	30	20
36	" " " white " " " "	50	30	20
37	" " " pink " " " "	50	30	20
38	" " " crimson " " " "	50	30	20
39	" specimen plant on exhibition		Medal and diploma.	
40	" 100 plants, not less than 20 varieties nor more than 5 of one variety, grown to single stem and bloom	100	75	50
41	" 50 plants, in not less than 15 varieties nor more than 5 of one variety, grown to single stem and bloom	50	35	25
42	" 25 plants in 13 varieties grown to single stem and bloom	25	20	15
43	" 50 plants, white, grown to single stem and bloom	50	35	25
44	" 50 " pink, " " " "	50	35	25
45	" 50 " yellow " " " "	50	35	25
46	" 50 " any other color grown to single stem and bloom	50	35	20
47	" 10 standards, distinct varieties, stems not less than 30 inches	100	75	50
48	" 5 standards, distinct varieties, stems not less than 30 inches	50	30	20
49	" 1 standard, stem not less than 30 inches	25	15	10

SECTION V.

CUT FLOWERS—ROSES.

CLASS.		PREMIUMS. 1st	2d
50	Best 12 American Beauty	$10	$6
51	" " American Belle	10	6
52	" " Kaiserin Aug. Victoria	3	2
53	" " Madame Caroline Testout	3	2
54	" " Bridesmaid	3	2
55	" " Catherine Mermet	3	2
56	" " La France	3	2
57	" " Madame Cusin	3	2
58	" " De Watteville	3	2
59	" " Meteor	3	2
60	" " Perle des Jardins	3	2
61	" " Sunset	3	2
62	" " Papa Gontier	3	2
63	" " Any other variety	3	2

CARNATIONS.

64	Best 50 blooms, white	$3	$2
65	" " " yellow	3	2
66	" " " pink	3	2
67	" " " red	3	2
68	" " " variegated	3	2
69	" " " crimson	3	2

VIOLETS.

70	Best 100, white	$3	$2
71	" " blue	3	2
72	" " single	3	2

MIGNONETTE.

73	Best 100 spikes	$10	$5

LILY OF THE VALLEY.

74	Best 200 spikes	$20	$15

[Continued on page 255.]

The World's Fair.

Chrysanthemums are the most interesting feature at present, and there are some interesting varieties in bloom. Mme. Bergman was the first white to open, Firenzi the first yellow. Whilldin and Gloriosum are now in good bloom, closely followed by Lincoln and Gorgeous. Domination has suffered a great deal from the ravages of the tarnished plant bug (Lygus pratensis), an insect described by Mr. E. D. Smith in the FLORIST for September 28. Many strong shoots are nothing but a thick bunch of blind wood at the tip, and the plants have had to be cut back recklessly in the hope of getting some flowering shoots. We often see distorted flowers, which are the result of this insect's attack on the young buds. Another trouble experienced has been with a root disease, apparently, causing loss of leaves; Viviand-Morel appears to have suffered more from this than any other variety.

Among dark varieties Alberic Lunden, George W. Childs, John Thorpe and Mrs. A. J. Drexel were the most noticeable. The rich carmine red and well shaped flower of Lunden make it a very taking variety. Mme. L. Langlois, reflexed flower, pink, shading to lemon in the center, was very handsome, and Salvator, a beautiful terra cotta flat reflexed flower, was noticeable for its fine color. Joseph H. White, one of the good early whites, made a nice pot plant. Ed. Hatch was not yet open, nor Mrs. Gov. Fifer, though the broad ribbon-like petals of the last named were beginning to uncurl. Redondo, a bronze with reverse of petals old gold, a very showy flower, claimed admiration; the color is very warm, and it is earlier than many of its tint.

In the hairy section Louis Boehmer was opening its flowers; pity its color is not more desirable, for it has so much more constitution than Mrs. Hardy. In the bench of new seedlings originated at the Fair there is a hairy petalled white one; it is not yet sufficiently expanded to see what the flower will be like, but the growth is very robust. Several of the late seedlings show great vigor and very promising foliage, but a number of them have suffered severely from the tarnished plant bug. A batch of strong growing seedlings will be viewed with particular interest; they were fertilized with our native Aster grandiflorus, which, if the cross was successful, might give us some extraordinary results in the way of color. But so far one can not find the slightest trace of aster parentage in the seedlings, in foliage or habit; the flowers, however, are not yet sufficiently advanced to show color. Such a cross as this might, some day, give us the blue chrysanthemum whose possibility is often discussed.

A group of three large plants, Puritan, in one of the houses, makes an interesting display of fancy training. There is a huge fan, probably eight feet across at base, a tall standard trained in umbrella shape, and another plant spread out into a large circle a few inches above the pot. These plants are all coming on nicely, and no doubt they will take the eye of many at the big flower show. There is quite a number of standards, but no collection of plants grown to single stem. Most of them are left in bush form. The chrysanthemums are kept locked up until the time for moving them into the big building, owing to the fondness of some of the visitors for floral souvenirs and "slips."

A collection of tuberous begonia blooms, from the Oasis Nursery Co., received in time for New York day, were of remarkable size and beauty; some of the single

Medal Day. Tuesday. November 7th.

All flowers sent for competition or exhibition on this day will promptly an carefully staged by James Dean and Frederick Kanst. Parties who are unable to be present and who desire to enter are assured that their exhibits will receive special care.

SECTION VI.

SEEDLINGS—CHRYSANTHEMUMS.

All seedlings, varieties not disseminated, shown for competition must have at least six flowers of each variety and be shown on long stems without any artificial support, and no award will be made to any specimens unless an improvement on existing varieties now in commerce.

CLASS.		
75	Best vase of white blooms	Columbian medal and diploma
76	" " yellow "	" " "
77	" " pink "	" " "
78	" " crimson "	" " "
79	" " bronze "	" " "
80	" " any other color	" " "
81	" seedling on exhibition not yet disseminated, any color, 12 blooms	$100

CUT FLOWERS—CHRYSANTHEMUMS.

82	Best 100 blooms in vase, white	Columbian medal and diploma
83	" " " " yellow	" " "
84	" " " " pink	" " "
85	" " " " crimson	" " "
86	" " " " bronze	" " "
87	" " " " any other color	" " "
88	" vase of any color or colors with autumn foliage	" " "
89	" basket of chrysanthemums, not less than 30 inches	" " "
90	" specimen bloom on exhibition, white	" " "
91	" " " " yellow	" " "
92	" " " " pink	" " "
93	" " " " crimson	" " "
94	" " " " any other color	" " "
95	" 12 blooms, any varieties, one of each; introduction of 1892	" " "
96	" 6 blooms, any varieties, one of each; introduction of 1893	" " "

ROSES.

97	Best new seedling rose of American origin not less than 12 blooms, not exhibited previous to 1892	Medal and diploma
98	" new seedling rose of European origin, not less than 12 blooms, not exhibited previous to 1892	" "
99	" 50 roses to be shown in a vase furnished by the exhibitor, on long stems	" "
100	" 50 American Beauty roses, to be shown in a vase furnished by the exhibitor	" "
101	" 50 American Belle roses, to be shown in a vase furnished by the exhibitor	" "
102	" vase of cut flowers of the best and most promising forcing rose of recent introduction never before exhibited	" "
103	" display of cut roses	" "
104	" display of carnations	" "
105	" new seedling carnations, not less than 12 blooms	" "
106	Best display of cut Orchids	Medal and Diploma
107	Best display of cut Lily of the Valley	Medal and Diploma
108	Best collection of cut Cypripediums	Medal and Diploma

Other medals will be awarded for exhibits of special merit.

Special Attractions for Thursday, November 9th.

Exhibits must be ready for the judges at 11 o'clock a. m.

SECTION VII.

ROSES.

		PREMIUMS. 1st	2d
109	Best 12 American Beauty	$10	$6
110	" " American Belle	10	6
111	" " Kaiserin Augusta Victoria	3	2
112	" " Madame Caroline Testout	3	2
113	" " Bridesmaid	3	2

[Continued on page 256.]

ones were over six inches across. Mr. Hill's new pink chrysanthemum, and a new yellow seedling from I. N. Kramer, Cedar Rapids, Iowa, were also on exhibition, and the Cushman Gladiolus Co. keep up their display of cut gladioli. The single dahlias are generally looking very well, and if we do not have very sharp frosts during the next week or ten days there will be a great abundance of bloom.

A fine feature of Manhattan Day was the display made by the New York Florists' Club, which was fully worthy the dignity of the Empire State. It was arranged in the northeast corner of the dome and consisted of cut flowers in great variety. One of the first things to be noted was the quantity of tuberous begonia blooms, laid flat upon a background of ferns and other foliage, entirely covering some of the tables and forming gorgeous borders to others. The flowers were simply magnificent in size and color, and the effect, arranged in blocks of color, yellow, scarlet, crimson or salmon, was superb and the object of universal admiration. All along the wall, on two sides of the triangular space occupied, the tables bore vases of roses, Beauties, Mermets, Perles, Brides, Meteors and Wattevilles of fine quality and arranged for effect. Chrysanthemums, yellow, white and pink, occupied other tables, with a large vase of the new Mrs. E. G. Hill in the center. Lily of the valley and mignonette of fine quality added their perfume to the roses, while smilax and garlands of passion flower decorated the wall. Too much praise can hardly be given to the members of the Florists' Club for the generosity with which they sent their flowers on this occasion, and the tasteful manner in which they were displayed must also be noted. It must also be stated, to the honor of the New York florists, that they are the only members of our craft who have made an organized effort to give displays of cut flowers at the Fair.

The New York state building was naturally in gala attire on this occasion, heavy garlands of oak leaves being used, twined about the columns and draped over the face of the structure. Inside the stately rooms were garlanded with the same material, with decorative plants here and there. At the breakfast to the Old Guard the table was decorated with red and yellow tuberous begonia blooms, laid over foliage flat upon the table. Similar flowers were used on the dinner table. In the evening the cut flower display was moved from the Horticultural Building over to the state building. When the Old Guard was passing the Horticultural Building they received a volley of flowers from New York, an attention that was much appreciated.

Overhanging Trees.

In "Wood on Nuisances" it is said: "Trees whose branches extend over the land of another are not nuisances, except to the extent to which the branches overhang the adjoining land. To that extent they are nuisances, and the person over whose land they extend may cut them off, or have his action for damages, and an abatement of the nuisance, against the owner or occupant of the land on which they grow, but he may not cut down the tree. Neither can he cut the branches thereof, beyond the extent to which they overhang his soil."

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

ROSES—CONTINUED.

114	" " Catherine Mermet	3	2
115	" " La France	3	2
116	" " Madame Cusin	3	2
117	" " Madame de Watteville	3	2
118	" " Meteor	3	2
119	" " Perle des Jardins	3	2
120	" " Sunset	3	2
121	" " Papa Gontier	3	2
122	" " Any other variety	3	2

CARNATIONS.

123	Best 50 blooms, white	$3	$2
124	" " " yellow	3	2
125	" " " pink	3	2
126	" " " red	3	2
127	" " " variegated	3	2
128	" " " crimson	3	2

VIOLETS.

129	Best 100 blooms, white	$3	$2
130	" " " blue	3	2
131	" " " single	3	2

MIGNONETTE.

132	Best 100 spikes	$10	$5

LILY OF THE VALLEY.

133	Best 200 spikes	$20	$15

Special Attractions for Saturday, November 11th.

Exhibits must be ready for the judges at 11 o'clock a. m.

SECTION VIII.

TABLE DECORATIONS.

CLASS.		PREMIUMS. 1st	2d	3d
134	Best dinner table decoration of Chrysanthemums with other foliage, for 12 covers	$100	$75	$50
135	" basket of Chrysanthemums, not less than 24 inches	40	30	20
136	" vase of Chrysanthemums with other foliage, exhibitors to furnish vases	40	30	20

ROSES.

137	Best 12 American Beauty	$10	$6
138	" " American Belle	10	6
139	" " Kaiserin Augusta Victoria	3	2
140	" " Madame Caroline Testout	3	2
141	" " Bridesmaid	3	2
142	" " Catherine Mermet	3	2
143	" " La France	3	2
144	" " Madame Cusin	3	2
145	" " Madame de Watteville	3	2
146	" " Meteor	3	2
147	" " Perle des Jardins	3	2
148	" " Sunset	3	2
149	" " Papa Gontier	3	2
150	" " Any other variety	3	2

CARNATIONS.

151	Best 50 blooms, white	3	2
152	" " " yellow	3	2
153	" " " pink	3	2
154	" " " red	3	2
155	" " " variegated	3	2
156	" " " crimson	3	2

SECTION IX.

CHRYSANTHEMUMS.

FOR AMATEURS ONLY.

157	Best vase, 50 blooms, any variety or varieties, on stems not shorter than 18 inches	Columbian medal and diploma		
158	" 48 varieties, one bloom of each, on stems not shorter than 18 inches	"	"	"
159	" 12 vases, 6 blooms of one variety in each vase, on stems not shorter than 18 inches	"	"	"
160	" 6 vases, 12 blooms of one variety in each vase, on stems not shorter than 18 inches	"	"	"
161	" general display of cut flowers	"	"	"
162	" general display of plants	"	"	"

DO YOU WANT an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our trade directory and reference book.

THE AMERICAN FLORIST and *Gardening* together to one address for $1.75. Send orders to the American Florist Co.

WHEN SENDING us newspapers containing items you wish us to note please do not fail to distinctly mark the item so it can be easily found, as we can not spare the time to hunt through the mass of papers sent us for unmarked items.

YOU CAN'T AFFORD to do business without a copy of our trade directory and reference book.



Carnation Notes.

Carnations are now beginning to make a crop and a little talk on the pulling and packing of them may not prove amiss, at least to beginners. Some who are not beginners have much to learn on this subject, among them myself. If some commission man who receives stock from a number of growers would give his views on the proper packing of them it would prove very interesting reading for us growers.

In pulling a long stem carnation it is well to pull it LONG, with the buds and if necessary some of the foliage with it. The difference in the number of blooms you get from a plant by this method is not as great as you would as first sight think. The plants will keep pushing along much faster and make better flowers than if you try to save some of the lateral buds, which do not make a first-class flower anyhow. There is a difference among growers as to what constitutes a long stem carnation, some holding that five inches should be classed as long, others that nothing less than eight inches should belong among the long stems. I am of the latter opinion, and think from eight to twenty is about right.

A few weeks ago I noticed an article, saying that we growers were making the express companies rich by paying them for carrying a lot of buds on our carnation stems. Whether the idea was to get us to disbud on the plants or not I do not know, but I always thought that the buds added to rather than detracted from the beauty of a bunch of bloom.

Another important point, is not to pull them until they are fully open, they carry much better, keep better, and sell better if allowed to open well before pulling. Where it is practical a good plan is to go over your houses every day and pull all the flowers that are well opened. Where the flowers are not used or shipped every day they are however better on the plants excepting a few varieties. Among the varieties I grow, Daybreak and Fred. Dorner are pulled daily and put in water until ready to ship. After the days get shorter and the sun is not quite so hot and bright this will not be necessary, but now they will fade off if left to get a day or two old, not enough to seriously hurt them, but just enough to spoil their beauty. There is only one time of the day to cut them, and that is before 9 o'clock in the morning. Some prefer putting them in water a few hours before packing, others pack them direct as they are cut. Both plans seem to give satisfaction.

The usual plan is to tie twenty-five in a bunch; some put in fifty, but that makes rather too large a bunch for convenient handling. Keep the stems even at the bottom, this will throw the flowers in an irregular bunch and they can be packed to much better advantage. A good plan is to put them in singly in the same way as roses are packed, putting 100 in a layer and dividing the layers with tissue paper. After you have the box packed put a memoranda of the contents in the top; this takes but a minute and is a great help to the party getting them.



GENERAL VIEW OF THE DISPLAY OF CANNAS AT THE WORLD'S FAIR.

The box will have to be lined according to the weather. Now a single piece of tissue paper will answer, as it gets colder use some newspaper around the sides, and when it gets real cold use newspaper, cotton wadding and tissue paper according to the cold and distance of transportation. Mark your boxes plainly with marking ink. Cards and stickers with the address put on with pen and ink are a poor affair. Put the red leaf cut flower label on the top, ends and sides of the box, and in short do everything you can to facilitate the handling of your flowers, leaving no opportunity for the express companies to mistake the contents and the destination of the box. Get your express agent to show you his latest instructions in regard to the handling of cut flowers, and insist on his following them to the letter. A few courtesies, such as an occasional bunch of nice flowers or a little sociability on your part will always be appreciated by him, and your interests looked after much better than if you start in to bulldoze and abuse him.

After you have attended to all this you will sometimes have a loss, and then you can follow Sam Weller's example and keep a cheerful countenance and a jolly heart, for there are ups and downs in all businesses and this is no exception to the rule.

A. M. HERR.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Notes by the Way.

Lilium nepalense at the F. L. Ames' place is one of the striking sights which Mr. Robinson has to show visitors at present. It has a very beautiful bell shaped flower, outside yellow and inside deep velvety purple shading to yellow at the margins of the petals. Although not a recent introduction this is the first time the writer has seen it in flower here, and it is so beautiful as almost to eclipse the gorgeous orchids now in bloom in the houses alongside. The recent death of Mr. Ames has naturally cast a gloom over the magnificent estate, and no one feels his absence more keenly than Mr. Robinson, who has been his gardener for so many years and who had such opportunities for becoming acquainted with his employer's rare and noble character.

Twenty years is a long time to be working among carnations, and one would suppose a good deal might be learned in that time. Mr. Sewall Fisher, however, with the rare modesty which betokens the true enthusiast, would have us believe that he knows nothing at all, notwithstanding that he has given us Mrs. Fisher and several other very fine varieties. What he means probably is that he knows nothing in comparison to what he doesn't know about the raising of new carnations. Any one who has listened to the cock-sure, know-it-all harangues of some of those who have been raising the Divine flower for a short year or two would find a fine antidote in a half hour's talk with Mr. Fisher. He has quite a number of promising seedlings on trial at present, but none ready to disseminate this season. All his seedlings are thoroughly tested several years before being sent out. This conservative course accounts for the number of varieties sent out by Mr. Fisher which have become standard sorts. A yellow seedling among a batch of six yellow sorts looked to be a fine thing, and Mr. Fisher admitted that it was the most promising yellow he had yet got, but said it was too soon to get enthusiastic. Next year and the year after might tell a different story. A very fine crimson, larger and better than Anna Webb, was noted. It is in its second year and will probably be heard from later. Mr. Fisher has been crossing with Marguerite on Florence and others and some unique results are looked for in this direction. Wm. Scott, among the pink sorts of recent introduction, is very highly spoken of, which is something of a compliment coming from so conservative a source.

Fred Mathieson and Tom Cox have two of the cleanest and tidiest places around Boston. It does one good to walk through them. Tom has a good eye for a fast horse too. It is a great sight to see Jim Rough and Tom at a 2:40 canter across the Cambridge bridge. Mr. Rough's black can put on a 2:30

gait when necessary, they say, but Tom swears that his pony can knock the stuffing out of Jim's in a twenty mile run. When the horse talk is on it is pretty exhilarating to be a listener outside Mr. Rough's counter. But when it comes to putting these strong assertions to the test and one has the privilege of sitting beside the driver the experience is more than exhilarating; it is terrific!

Lawrence Cotter's chrysanthemums are like his roses—extra fine—this season. Lawrence has tried a new wrinkle for making his plants dwarf with good success. Book learning is not despised here, and this imported method is one of the benefits resulting therefrom.

Mr. Wm. J. Stewart has been so much identified with the wholesale business that most people wonder where he gets all his information about trees and shrubs and plants in general. A recent visit to Mr. Stewart's charming home in Winchester partly cleared up the mystery, for here was seen a fine collection of conifers, shrubs and other plants, nearly every one of which was a rarity in its class. One specimen, a Pinus ponderosa pendula, a fine healthy young plant, is claimed to be one of the rarest pines in cultivation. The famous Blue Spruce of Colorado is well represented, as are also various rare thuyas, piceas, etc. It would take up a good many columns of the FLORIST to tell of all the rarities which Mr. Stewart has collected here in the course of the past fifteen years. He loves every specimen for itself and takes the greatest delight in watching their development. It was quite refreshing to find this heretofore unsuspected phase of a wonderfully versatile character in other directions.

Great improvements are noticeable at the Arnold Arboretum. New ground is being broken in and planted out; new driveways are being made and the immense collection of trees and shrubs is yearly growing larger. Mr. Dawson, ever genial and enthusiastic, seems to get more mellowed as the years roll by and his family grows larger. The arboretum is the first place one ought to take in when visiting Boston. There is always something interesting to be seen, spring, summer, autumn and winter; besides there is the surety of a warm welcome from a big hearted man who is a walking encyclopedia of information.

G. C. WATSON.

A Visit to Hinsdale, Ill.

On the 14th inst. Mr. John H. Taylor, Bayside, N. Y., paid a visit to the establishment of Mr. O. P. Bassett, at Hinsdale, Ill. He was accompanied by the scribe, who made some notes of the conversation between these two well known growers as follows:

Mr. T.—"You seem to have a good many Harrisii."

Mr. B.—"Yes, I have a total of 30,000. I handle them so as to bring them in in small lots through the season. Will begin cutting flowers about November 15 to 20 and will have them till the end of next July."

Mr. T.—"I see you have a batch of Meteor. How do you like it?"

Mr. B.—"Well, we can't grow it the way you do east, but we find it very useful."

Mr. T.—"Probably you don't give it enough heat. It needs a higher temperature than most other roses."

Mr. B.—"Thanks for the pointer. Will give mine more heat as you suggest and note results."

Mr. T.—"You have a lot of Beauties and they are in fine condition too."

Mr. B.—"Yes, I have 10 houses of Beauties, each house 20x170. We grow more Beauties than anything else. By the way, I will tell you a good story about this house. It was planted last May with rooted cuttings taken from the sand bed and which had never been even potted off. When planted they were so small you could hardly sight the rows, and now as you see it is the best house of Beauties I have."

Mr. T.—"I have done the same thing with Hoste and had equally good success, I notice a few blind shoots on some of the Beauties. I don't grow the Beauty myself, but growers in the east say that every blind shoot can be made to produce a flower by bending it down, carrying it along to the next stake and tying it up to that. The extension of the cane seems to produce the result. How do you like Hoste?"

Mr. B.—"Not very well. I can't get good flowers till late in the season—till real cold weather."

Mr. T.—"Now, I consider it one of the best roses I grow. It does exceedingly well with me. Testout is also a grand thing with me. But to get plenty of good flowers you must cut it down each time to one or two eyes only. It will keep on coming as fast as you cut it down. I see you are trying some Kaiserin."

Mr. B.—"Yes, it seems to be a good summer rose, but am afraid it won't be of much value for winter work."

Mr. T.—"I have found it equally valuable for winter flowers and consider it a good all round rose. I see your new range of houses are built on the short-span-to-the-south principle. How do you like it?"

Mr. B.—"Well, to tell the truth I can't see as it makes much difference which way they are placed. Still, during the summer these houses are certainly cooler than the others and that is a point. No, am sure there will be no trouble from snow laying between the houses. I watched Mr. Miller's range, near here, last winter and though they are joined together, and with the same angles, he never had any trouble, and we had more snow last winter than for many years."

Mr. T.—"About what was the cost per running foot of these new houses, including heating?"

Mr. B.—"I haven't figured it out exactly, but as a close guess I should say about $12 a running foot."

Mr. T.—"Why, that's almost as much as my iron frame houses cost. They cost me $12 a running foot exclusive of heating."

Mr. B.—"Well, the way these are built they will last about as long as an iron frame house. And by the way I must tell you that in only six weeks from the time the ground was broken for this new range of 11 houses, each 20x170, the planting was completed, all the work of construction, painting, piping, etc., having been done in that time."

Mr. T. "It certainly was a very quick job. You seem to have had a fire here."

Mr. B.—"Yes, and it was a quick one too. This was our old boiler house. We use crude oil for fuel and the building, which was of frame construction, was pretty well saturated with the oil. We had just set down to dinner and the soup had been served when the kitchen girl called out that the greenhouses were on fire. We ran out to do what we could, which was simply to confine the fire to the boiler house and keep it from spreading. The whole thing was over so quickly that when we went back to the table the soup was still warm and our dinner was not spoiled. Over here is our new boiler house which is as you see of brick and a pretty solid affair. We still use crude oil for fuel and would not return to coal. See how easily a fire is started. Now come around to the rear of the boiler and look in at the flame through this isinglass set in the brick work."

Mr. T.—"That is quick work and a powerful fire. Where do you store your oil?"

Mr. B.—"In this tank sunk in the ground out here. It is fed to the boiler by this pump, and mixed with steam from this small boiler before it goes to the burner. As you see we have no offensive odor from the oil and outside of the boiler house you can not detect any smell. We haul the oil from the depot in that tank wagon you see over there. But come in here; I want to show you some valley we are forcing. It seems to me to be coming pretty good for this season of the year. I bought the pips from cold storage."

Mr. T.—"Well, I should say they were good. I never saw them better at any season of the year. And by the way I never saw American Beauties average finer than yours. In teas you are not quite up to our best eastern growers, but none of them are ahead of you on Beauties."

Chrysanthemum Shows.

Pittsfield, Mass., Oct. 31-Nov. 3—Berkshire County Gardeners' and Florists' Club. W. M. Edwards, Sec'y, 103 Howard St., Pittsfield, Mass.

Chicago, Nov. 4-12—World's Fair Chrysanthemum Show. W. C. Egan, Sec'y, Horticultural Building, World's Fair.

Baltimore, Nov. 6-11—Gardeners' Club of Baltimore. Wm. McRoberts, Jr., Sec'y, 304 W. Madison St.

New York, Nov. 6-13—New York Florists' Club. John Young, Sec'y, 53 West 30th St. Henry McCrowe, manager of exhibition, Grand Central Palace.

Milwaukee, Wis., Nov. 7-9—Milwaukee Florist Club. A. Klokner, Sec'y, 219 Grand Ave.

Newport, R. I., Nov. 7-9—Newport Horticultural Society. John J. Butler, Sec'y, P. O. box 313.

Hartford, Conn., Nov. 7-9—Hartford County Hort. Society. Edw. S. Young, Sec'y, 60 Oak St.

Boston, Nov. 7-10—Massachusetts Horticultural Society. Robert Manning, Sec'y, 101 Tremont Street.

St. Louis, Nov. 7-10—St. Louis Florists' Club. E. Schray, Sec'y, 4101 Pennsylvania Ave.

Indianapolis, Ind., Nov. 7-11—Society of Indiana Florists. Wm. G. Bertermann, Sec'y, 37 Mass. Avenue.

Philadelphia, Nov. 7-11—Pennsylvania Horticultural Society. D. D. L. Farson, Sec'y, Broad St.

Worcester, Mass., Nov. 8-9—Worcester County Hort. Society. Edw. W. Lincoln, Sec'y.

Montreal, P. Q., Nov. 8-10—Montreal Gardeners' and Florists' Club. Henry Stocking, Sec'y, 230 St. Denis St.

Providence, R. I., Nov. 8-10—Rhode Island Hort. Society. C. W. Smith, Sec'y, 61 Westminster St.

Louisville, Ky., Nov. 9-14—Louisville Florists' Club. H. Nanz, Sec'y, 582 Fourth Ave.

Springfield, Mass., Nov. 14-16—Hampden County Hort. Society. Joseph Booth, Sec'y, care of Springfield Institution for Savings.

Washington, Nov. 14-17—Florists' Club of Washington. G. W. Oliver, Sec'y, 1344 8th St., N. W.

Toronto, Ont., Nov. 21-24—Toronto Gardeners' and Florists' Association. A. H. Ewing, Sec'y, 85 Carlton St

WE HAVE RECEIVED from Mr. R. Witterstaetter, Sedamsville, O., a half dozen blooms of his new early pink chrysanthemum, Rosa Kupferle, which is certainly a very handsome thing and will surely be useful. The flowers were large, slightly reflexed, much like Viviand-Morel in size and form, and held at a short distance the color was a clear bright pink of a very attractive shade. Close examination showed that the color was unevenly distributed on the petals and that there was a strong trace of magenta in it, but



BED OF ALPHONSE BOUVIER CANNAS AT THE WORLD'S FAIR.

held at arm's length this last was not perceptible and then the effect was superb. Several ladies who inspected the blooms were charmed with them, and we believe the flowers would probably sell better over the counter than some others which have a better finish. In view of its earliness and fine general effect we are inclined to believe this variety will be very useful.

Gardenias.

The gardenia is much grown in England as a florists' flower, and is becoming to a certain extent popular here in the same capacity. On account of its deliciously fragrant flowers it is a desirable greenhouse plant, and as it is of a hardy constitution it stands well as a window plant. All the gardenias are sweet scented, and all of them, with the exception of G. Standleyana, are pure white flowers. They are easily propagated from cuttings made from the half ripened wood, using a moderate amount of bottom heat, and inserted in a moderately close propagating frame. The young plants do well planted out for the first summer if you have a piece of wet sandy land to plant them out in; if planted out in a dry place they get spidery and starved. They should be grown in a mixture of loam and peat in equal parts with some sand and a small amount of well decomposed manure, giving them plenty of drainage. When growing give plenty of water and liberal syringings or else they get infested with spider and thrips. While they are growing keep them warm, and when the growth is completed keep cooler and not so moist to ripen the wood. After flowering they should be pruned back a little to induce them to make bushy shapely plants. Repot them if they need it, and start them into growth for another season's flowering.

G. florida is a strong growing variety with bright glossy green leaves, rather upright growth and large white flowers. This variety stands cutting well. G. citriodora is a very fragrant species, free flowering; the flowers being about the size of orange blossoms and produced from the axils of the leaves. This variety is of a compact spreading habit and grows about two feet high. G. Fortunei is a very strong growing variety, very free blooming, and the flowers are very large; it much resembles a large form of G. florida, but is a much freer bloomer. G. radicans is a small foliaged dwarf growing variety, and very free flowering; a very desirable pot plant. G. radicans major is a stronger and larger variety than radicans, though not so large as G. florida; it is the most profuse bloomer of all the gardenias. G. florida variegata is a variegated form of G. florida. The leaves are margined with yellow, making it a handsome plant when not in flower. G. radicans variegata, a variegated form of G. radicans, has the leaves margined with white. It is a very pretty little plant and as free flowering as G. radicans. G. Standleyana: This variety produces immense flowers, trumpet shaped, from eight to ten inches long and five inches broad, the throat and base of the lobes of the flowers spotted and blotched with reddish brown, and the margins are white. This variety is very fragrant. It is a free grower and blooms in summer, but as it is a native of Sierra Leone it requires more heat than the other species, which are all, with the exception of G. citriodora, natives of China and Japan.

Madison, N. J. JAS. S. TAPLIN.

Foreign Notes.

Cypripedium Charlesworthi is a very distinct variety of recent introduction, which received a first class certificate from the Royal Horticultural Society. It is very dwarf, with long narrow leaves, flower stem only three to four inches long. The lip is short, green, suffused with brown, staminode pure white, dorsal sepal very noticeable, broad and round, of a delicate rose color.

Nepenthes mixta is a cross between N. Curtisi and N. Northiana, recently exhibited in England. The pitchers are nine or ten inches in length, rather narrow, and in color greenish red heavily blotched with brownish red. The ribs surrounding the mouth of the pitcher are deep crimson.

Disa premier is a new hybrid obtained by crossing D. Veitchii with D. tripetaloides. It has bright rose red flowers, and obtained a first class certificate from the Royal Horticultural Society recently. It was flowered at the Royal Gardens, Kew.

PLEASE WRITE on your printed letter head when addressing our advertisers. If you have no printed letter head, then enclose your business card or bill head.

A Palm Leaf Blight.

The caryotas are among the most attractive of our palms grown for indoor decoration, and it was with many regrets that recently the writer saw a score or more young plants with their leaves badly blighted. The accompanying engraving will give the reader an idea of the general appearance of the pair of leaflets that are badly affected. Near the center of each is a large long ashy spot, shown natural size in the engraving. This light area is bordered by a brown, almost chestnut shore, while over the central portion are many small specks seen with ease only with the hand lens. These are spore spots and consist of rifts in the skin of the leaf through which the fungus protrudes and bears its multitudes of spores.

It would be interesting to study the development of these blighted patches and determine whether some injury is needed to so weaken the tissue as to permit the fungus to get a foot hold. However this may be it seems true that when once within it is able to grow, extend and finally ruin the leaf.

One of the surprising features of this blight is the quite uniform location of the single spot near the center of the leaf.

As for a remedy, there is perhaps nothing better than the cutting away of these blighted leaves and burning them. A leaf that has its center killed as has the one shown in the engraving can only become worse as time goes on.

The fungus found associated with these spots, whether the cause or secondary to some injury, as sun scald or the like, is a species of anthracnose that if the cause would doubtless be amenable to treatment like a similar fungus upon the carnations. BYRON D. HALSTED.

Rutgers College, October 6, 1893.



BLIGHT ON CARYOTA URENS.

New York.

There is little, if any, improvement to be noted in the condition of the flower market. The stagnation still continues, and there is more stock of all kinds than can be handled to advantage. Among chrysanthemums the varieties most abundant at present are Ivory, Mrs. J. G. Whilldin and Mrs. J. N. Gerard. Ivory is decidedly the best seller, and is likely to be until Minnie Wanamaker can be had in quantity. A good early pink one to supplant Gerard is wanted. This variety drops so quickly as to be of little value for shipping, and is very unsatisfactory to handle on account of this pronounced defect. Violets are very plenty and seem to be freer from disease than for several years past. They are overstocked and it looks as though the high prices of last year would scarcely be reached this year.

The wedding decoration for Miss Neymann's wedding at St. George's Church on October 24, by Warendorff, of Broadway, was a little out of the common run. Oak boughs formed a large part of the decoration in the church. The beautiful polished foliage with its rich autumn tints in deep red and mahogany was very effective. Handsome araucarias trimmed with streamers of apple green ribbon were set on pedestals and showed up well against the oak background. The reception at the house was under a canopy of lily of the valley and cattleyas.

E. Rosenbaum has opened a new florist store on Broadway, corner of 38th street. C. B. Nugent, formerly in business on 34th street, has been installed as manager.

James Purdy reports trade as opening much better than he expected at his new wholesale establishment on 43rd street. This is quite convenient to the up-town florist stores.

New wagons seem to be a sort of craze with the New York florists this season. Fleishman, Sears, Thorley, Scallen, Hession, W. Burns, Warendorff, Weir and Dailledouze Bros. are all sporting new wagons more or less dazzling in gold paint and plate glass, and with trimmings and liveries to match. John Weir's turnout is apparently not stylish enough for his own use, however, as he has been known to go home from the city in a hack on recent occasions.

The firm of Pitcher & Manda, of Short Hills, N. J., has been incorporated as a stock company under the laws of the State of New Jersey. The name, interests and management remain the same as before the change.

Ernst Asmus has just returned from his annual hunting excursion to the Megantic preserves in northern Maine. The net results of the trip were a caribou and a deer. After explaining to his friends the reason why he did not bring a dozen caribou and a couple of moose and laying all the blame on the gun, he donned his hat again, took up his grip and started for Chicago.

Joseph Manda, who has been in charge of the orchid houses at United States Nurseries for some years, has left that establishment and is now with Hicks Arnold, Esq.

Thos. Young, Jr., has gone on a short trip to the World's Fair.

The first Roman hyacinths of the season made their appearance on the market on October 21.

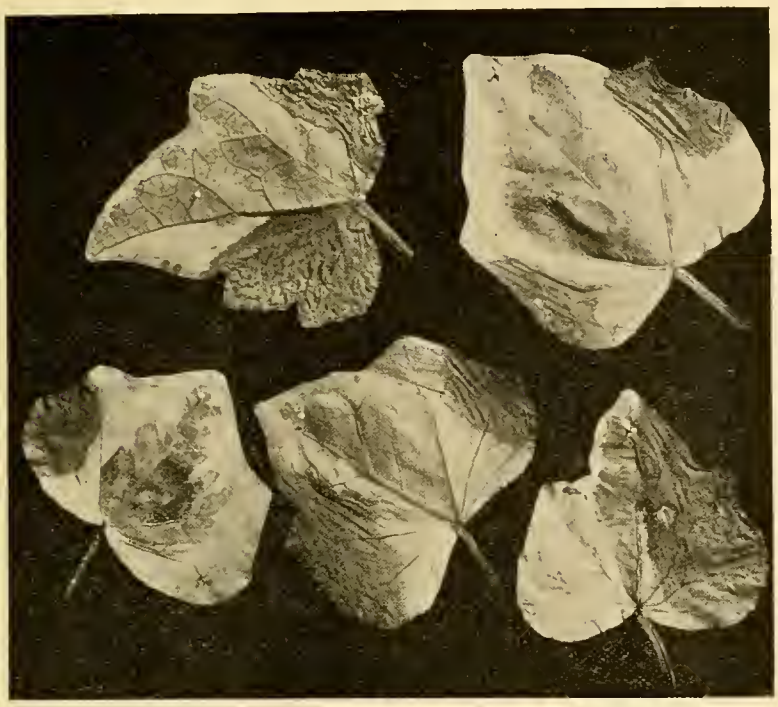
Philadelphia.

Nearly all the growers are now handling mums. Some have only a few, and others carry enough to fill a wagon, while Messrs. Harris, Anderson and several others will not commence to cut until the 23rd. Mr. Harris says there is nothing in the early ones for him and nearly all his stock is confined to late varieties.

The varieties in the market at this date (20th) are Kate Brown, Mme. Bergmann, Mrs. Whilldin, Gloriosum, Mme. Girard, a few Ivory, Mrs. Bullock and a few of other varieties that should not have been cut for a week. C. F. Evans brought in a few blooms of Mrs. Craig Lippencott that were extra fine; this variety will we believe bear out our predictions of last season; it is fully as large as Golden Wedding, a better grower and a more graceful flower, being a magnificent incurved yellow. Mr. Becket, of Oak Lane, is cutting some fine flowers of Ivory, Mrs. Bullock, and a new early pink one of his own raising. He exhibited a flower of this variety at the meeting of the Penna. Horticultural Society at its last meeting; it was the only specimen shown and a reporter stated that it stood sentinel over the interests of its race as they were discussed in the evening council. Mr. Becker can find here a good name for his "mum" if it is not already christened.

The best blooms sell for from $2 to $3 a dozen. Medium size flowers from 75 cents to $1.50, while smaller kinds in sprays bring from 2 to 3 per hundred flowers. They are selling better than last week, and while it is likely there will be a great many thrown on the market for the next six weeks we do not anticipate much of a slaughter. Last season about this time we remember hearing some dire predictions made about the "weeds," but we presume they were not fulfilled, as there are likely to be more flowers this season than last, and the prophets are more heavily in it this year than ever. Chrysanthemums in pots are coming in pretty lively. Jacob Becker, Robert Craig, John Skelly, Geo. Uber and several others are sending in fine plants in from 6 to 8-inch pots; they bring from $4 to $12 per dozen.

Roses are plentiful and prices remain about the same, first class teas $3 to $4 per hundred. Meteors and Kaiserins $4 to $6. Small teas $1.50 to $2. Beauties and Belles $1 to $2 per dozen. Carnations are now in fine shape, but the best can still be had for $1.25 per hundred, with very good ones for $1. Shorts 75 cents. Valley is in good supply at from



BLIGHT OF VARIEGATED ENGLISH IVY.

$3 to $4. There is a limited supply of orchids at various prices, generally so much for the lot. Cattleyas seem to have the fixed price of 50 cents each the season round. Double violets are now to be had in quantity at 50 cents per hundred, the quality, however, seems to be some weeks away. Single violets are very plenty at from $2.50 to $3 per hundred bunches. Loncope, of Liddonfield, has a limited quantity of the Czar, which sells very well.

The regular monthly meeting of the Penna. Horticultural Society was held last Tuesday evening and some important business transacted. The schedule of the spring exhibition to be held in the third week of March next was discussed and changes made. Secretary Farson said the prospects for the chrysanthemum show were excellent and that more entries were now in than ever before at this time. The cut rose exhibits, he said, would be very fine, judging by the number of entries. This was the meeting at which nominations of officers to serve for the ensuing year were in order, and the following gentlemen were nominated:

For president, Geo. W. Childs; vice-presidents, W. A. Reed, M. D., Robert Craig, Charles H. Miller, Geo. W. Earle, John Burton, Chas. W. Notter; recording secretary, D. D. L. Farson; corresponding secretary, Edwin Lonsdale; treasurer, Thos. Cartledge; professor of botany, Charles Schaffer, M. D.; professor of horticultural chemistry, Prof. Persifor Frazer; professor of entomology, A. C. McCook, D. D.; solicitor, W. B. Moore; librarian, D. D. L. Farson.

John Burton is in Chicago doing the Fair.

W. J. Baker proved himself to be quite general at ten pins and in the match at the alleys last Thursday night he marched his small army to victory, having a lead of some eighty pins at the close. He will have a chance soon to show his ability in managing a defeat, which usually taxes the ability of great men to the utmost.

K.

A Blight of the Ivy.

This is not the first time that the writer has had something to say concerning the weakness of variegated plants. The white portion of a leaf is less able to ward off fungus enemies than the green parts, and this fact is no better illustrated than in the variegated sorts of the Hedera helix. Some years ago while making a special study of variegated plants this fact was brought to notice, but recently a more emphatic illustration came under my observation. From average samples of these blighted leaves, of which there were several hundred, the accompanying engraving has been made. In order to bring out the prevailing light color of the leaf the subjects were placed upon black velvet, thus giving them a dark background in the picture.

The form of variegation which prevails in the ivy consists of a blanched area around an irregular central portion. In some of the leaves this etiolated border extends nearly to the center, when the leaf is nearly entirely white. In others the green central portion reaches nearly to the margin.

The blight in like manner is quite uniform in its location, for it almost always begins midway of one side, that is, about half way between the base and apex and eating its way in does not stop at the line of the green area, but sweeping across blackens the whole leaf. Very often the blight begins at the same time upon both sides of the leaf, and the ruin is quickly effected.

Ivy of the ordinary sort growing near to and under the same circumstances as the variegated specimens are rarely troubled, but however are not entirely exempt.

The blight, that is, the turning brown and dying of the white tissue of the leaf, is due to the inroads of a fungus of the anthracnose type. It abounds in spores which are the means of the rapid spread of the blight. These spores when they fall upon the etiolated portion of the leaf probably are better able to effect an entrance there than upon the green parts. When once in the threads grow rapidly and penetrate all portions irrespective of the coloration. After a short time the fungus develops small spots upon the surface like microscopic tufts of black hairs among which the spores are borne. Each blighted leaf in that way becomes a place where the disease germs are produced in vast numbers.

There are two leading, practical points in this connection. Let it be remembered that the variegated sorts of foliage are much more subject to blights than green ones of the same kind, and therefore if any one prefers the variegated to the ordinary sort he must bear this fact in mind and lend some assistance to his weakened pet. He can help by removing the blighted foliage as it appears or he may spray the vines with a fungicide. Those who indulge in variegated foliage plants must needs take more than ordinary precautions or else the blights will render unsightly what otherwise may be exceedingly attractive and beautiful.

BYRON D. HALSTED.

Rutgers College, October 6.

Boston.

There have been two or three society weddings in the past week, and most of the florists have had a fair share of funeral design work to make, but apart from this trade has been exceedingly dull and unsatisfactory all round. Roses bring not much more than one-half the price realized at this season in former years' and the demand for them even at the low prices is very light, a large proportion of them finding a market only through the hands of the street fakirs. Carnations have become plenty once more and are, like the roses, selling slowly and at reduced prices. Daybreak is unmistakably the best selling variety here this year. Wilder holds it own as far as quality is concerned. The theory of the "running out" of varieties gets a set back in the case of Wilder at least. At Wm. Edgar's there is a house of this variety which has never been excelled for quality and productiveness.

Chrysanthemums are with us—not the gorgeous specimens that will appear a little later, but in quality sufficient to give some indication of what general results are likely to be with chrysanthemums this year. That their popularity will be sustained and that while they are here other flowers will have to take the back seat may be taken for granted. But that the prices obtained in the past may be counted upon for this season is very unlikely. There will be some fine exhibition stock hereabouts, finer probably than anything shown by Boston growers heretofore.

The first heavy frost of the season came on October 17 and outdoor flowers were pretty generally finished up. The autumn foliage in the woods and fields has been unprecedentedly brilliant this fall, the weather being in all respects favorable to its best development. Out at the Arnold Arboretum it is interesting to note how many flowering shrubs there are which continue in bloom or flower for the second time late in the fall. One of the most showy flowers to be found among the shrubs at any time is Gordonia Altamaha, and it is still opening freely its beautiful

white camellia like blossoms, four inches in diameter. Several of the hypericums and spiræas are still flowering and clematis Boskoop Seedling does not seem to realize that autumn has come.

Miss Simpkins of Yarmouthport has offered a silver cup worth $40 for the best twelve blooms of any pink variety of chrysanthemum, pompons excluded, stems to be not less than two feet long, to be competed for at the Boston exhibition.

Geo. C. Watson of Philadelphia, Winfried Rolker and J. A. Penman of New York and A. Dimmock of London have been among the prominent recent visitors to this town. Penman is making his second canvass with Nicholson's Dictionary of Gardening, and with such success that it seems as though there is almost no limit to the number of copies of this popular work which can be disposed of.

N. F. McCarthy has gone on a trip to the World's Fair.

Chicago.

Business during the past week has been quite good and continues to improve. Stock is plentiful; the small roses begin to suffer severely from the chrysanthemums, though the market for Beauties is not in any way affected. Chrysanthemums have greatly improved and some fine specimen blooms are now received. Miss Rosa Kupferle, a new pink from Cincinnati, very large and showy, has sold well; according to the wholesalers this is likely to prove a real acquisition. We see excellent Ivory, Domination and Gloriosum from local growers. Some of these fine specimens have reached $5 a dozen; others go from $2 to $4 a dozen, while the sprays of small flowers average $4 a hundred flowers.

Roses and carnations suffer from the chrysanthemums, but the quality is good, and the quantity is considerable, owing to the abundance of bright weather. Violets are still scarce and go as high as $1.50 for the best. Cosmos does not sell at all since the chrysanthemums came in.

Very few chrysanthemums as pot plants are grown for this market; a few are sent in, selling for $3 to $5 a dozen, but they are very poorly grown. It seems reasonable to believe that good pot plants would sell here as they do in other cities, but it is likely that the best are handled by retail growers and do not come into the open market at all. Still there should be something better grown than the shabby samples we see.

T. J. Corbrey is about to take a business partner in the person of Charles MacKellar, who has been manager for the Niles Center Floral Co. since the opening of the Cut Flower Exchange. The firm will be known as Corbrey and MacKellar.

The wife of Alfred Saxen of Downer's Grove died on the 13th inst.

On October 10 W. C. Cook cut some fine chrysanthemums that brought 50 cents each wholesale.

Recent visitors: A. W. McIntosh, Burlington, Vt.; Wm. Scott, Buffalo, N. Y.; T. H. Spaulding, Orange, N. J., Frank Holznagel, Detroit, Mich.; C. Rayner, Anchorage, Ky.; Thos. Archer, St. Joseph, Mich.; Wm. Cunningham, Geo. S. Hunter, Grand Rapids, Mich.; W. E. Hearne and wife, Oskaloosa, Iowa; Conrad Gindra, Poughkeepsie, N. Y.; G. J. Asman and wife, Detroit, Mich.; F. B. Smith, Danville, Ill.; J. Hess, Omaha, Neb.; Henry Gray, Nashville, Tenn.; W. E. Kemble, Oskaloosa, Iowa; Henry Michel and wife, Marion, Ind.

Baltimore.

The back yard flowers are not in it any more since Jack Frost's last visit, and those who want flowers now (may their names increase) have to buy them, to the great pleasure of the dealers therein.

Possibly when the great western show is over a further improvement in the market may be experienced, for there can be no doubt that much money that in ordinary years would have been spent in luxuries here has found its way to Chicago; and many a gentleman thinks twice before sending his inamorata that cluster of roses, that would have gone at once had his pocketbook not been depleted by a trip west. There is another side to it still, in the man who continues to send the roses but pays for them with promises, a currency pleasant enough to take, but hard to pass along, for coal, wages, etc. Every florist seems somewhat of a statesman and financier just now, in common with most other tradesmen, and many are the prophecies of amendment in the market when the conscript fathers, now in high debate in Washington, arrive at some sage conclusion and do some mighty wonder in national affairs. Altogether everybody seems hopeful, though complaints of slack business and slow collections are the general cry.

A trip to the Lutherville Nursery Co.'s houses showed everything in very neat condition. In one of the six large houses, two hundred feet long, were two very healthy benches of chrysanthemums, one mixed, the other L. Canning. There was in another house a bench of very fine cyclamens, and a house of young palms was in extra condition. Owing to some trouble with the brickwork of the boiler, which had to be repaired, preventing heating, there was considerable mildew on the roses, but with that exception everything looked very promising. A large stock of hedge plants, cratægus, euonymus, etc., outside seemed in perfect condition.

"Mums" are appearing in quantity, very good ones selling at from three to five cents. There is every indication of an enormous lot being put on the market here very soon, and it is to be hoped that sales will stiffen up considerably, or they will be a drug in short order.

Mr. J. J. Perry says the prohibition party is sure of another vote in twenty-one years if the voter he is raising lives that long. MACK.

Toronto.

Some of the carpet beds at the Horticultural Gardens are still (October 20) looking nearly as well as ever. The plants in the other beds have been all taken up and distributed among the school children. Mr. Watkins, the superintendent, has some very fine single stem chrysanthemums in the greenhouses; most of them are nearly at their best now and many would have been too early for the show even if the date had not been changed. Among the best and largest flowers were noticed Lizzie Cartledge, Ada Spaulding, Puritan (immense), Hicks Arnold (very fine), Sunflower (grand), Louis Boehmer (very large but muddy), Domination, Fleur Parfait (very pretty).

At a recent wedding chrysanthemums figured quite conspicuously.

Excitement concerning the show is gradually rising. The campaign has begun with every prospect of success.

The regular meeting of the Gardeners' and Florists' Association last week was well attended. President Tom Manton was again in the chair. A lot of business concerning the arrangements for the chrysanthemum show was settled. A notice of motion was introduced, which, if it passes, will have the effect of putting the nomination and election of officers on the same day.

A good feature at the coming show will be the placing of uniform labels on all plants and cut flowers. It is proposed to have either an expert writer or typewriter in the secretary's office (probably the latter); each exhibitor will hand in his list of names and the expert will put them on the cards, put them in an envelope and give them to the exhibitor to place.

Trade still improving slowly. E.

St. Paul.

The florists report a better trade this week. Beauties are in good demand. Other roses are very plentiful, the bright weather of our "Indian summer" bringing blooms in abundance. Carnations are also in good demand, as are bouvardias. "Mums" are just coming into market. The supply is large and prices will undoubtedly rule low. In ten days or two weeks they will be abundant.

"Mums" are more popular than ever, even supplanting roses for bridal bouquets and the like. As long as they are so eagerly sought after our florists will grow them in abundance. One of the leading florists here told me a few days since that he considered his "mums" paid him better than anything else, not excepting roses.

A glance about town shows stock as a rule in excellent condition. A few roses have been badly mildewed, owing to negligence. They are now recovering under the influence of our bright sunny days.

By the way, our friend Donaldson, of Glass Block fame, in our sister city, is outdoing us all in his floral displays.

Our millionaire railroad magnate, Mr. Jas. J. Hill, has a very unique conservatory wherein are grown a variety of the choicest plants in the land. Some of our practical florists could learn much by visiting his establishment. FELIX.

OBITUARY.

J. B. GUILLOT.

The death of J. B. Guillot fils, of Lyons, France, which occurred September 6 last, deprives us of one of the most distinguished rosarians in the world, to whom we are indebted for some of the most valuable roses now in commerce. He was born at Grenoble, France, in 1827, but two years later his father, J. B. Guillot pere, moved to Lyons, where he began to grow roses. Here the establishment which soon became famous in horticulture was founded in 1851. M. Guillot fils, sent out his first rose, Mme. Falcot, in 1858, and during the past thirty-five years this has been followed by many others. In teas we need only mention such widely known and valuable varieties as Catherine Mermet, Mme. Hippolyte Jamain, Marie Guillot, Etoile de Lyon, Mme. Cusin and Mme. de Watteville, or the hybrid teas, La France and Pierre Guillot to show the value of his work. Since 1884, when his son, Pierre Guillot, became associated with the firm, they have sent out Countess de Frigneuse, Luciole, Mme. Hoste, Christine de Noue and Gloire Lyonnaise. Some years since M. Guillot was decorated with an order of merit by the



TUBEROUS BEGONIAS IN THE NEW YORK STATE DISPLAY AT THE WORLD'S FAIR.

French government, in recognition of his labors, and his abilities were recognized wherever the rose is grown. His death removes one of the most notable figures in the rosarian's world, and he will be regretted, not only by his personal friends, of whom there are many, but also by horticulturists everywhere.

Insects on the Nelumbiums.

The insect pest on the nelumbiums is prevalent to such an extent on the plants in the locality of Washington that at least one grower of water lilies who had planted quite a number of roots has become disgusted with the ravages of the pest and given up nelumbium culture altogether. Where only a few plants are grown it is an easy matter to keep the plants clean. This is done by watching for the eggs and removing them before they hatch. So far as I have been able to make out there are two broods of the perfect insects each season. They evidently hibernate in the pupal state and emerge therefrom about the time the nelumbium leaves are fully developed. The eggs are oblong, nearly black and are deposited a great number together on the stems of the leaves and flowers which are above water; rubbing these off and crushing them between the thumb and finger is the easiest method of dealing with the pest. G.

Distributing Liquid Manure.

"Here is the tank we used to mix our liquid manure in and from which it was pumped to the houses, but we don't bother with such a cumbersome system now. We have something much simpler." Thus spake Mr. W. N. Rudd, of Mt. Greenwood, Ill., to the writer recently. "Here is what we use" he added showing us a combination hydrant attachment. "We attach this to the hydrant, then our hose to this opening, while from the other, we run a short section into a barrel of prepared liquid manure. The passage of the water soon sucks all the air out of the hose that connects with the barrel and the stream from the hose is then a mixture of half water and half liquid manure. There are attachments by which we can change the proportions to suit us, but we mix our manure of such strength that half and half with water is about right. This device saves us a great deal of labor. It is made by the Hose Connection Co., of Kingston, R. I. and was recently advertised in the FLORIST. I consider it a very valuable labor-saving device."

CORRECTION.—In our last issue, through an error, the titles of the two davallias illustrated were transposed. The one entitled Davallia Mooreana should have been named D. Fijiensis, and vice-versa.

LANCASTER, PA.—B. F. Barr's new range of houses is now completed, and they are models of convenience. The plant consists of about 20,000 feet of glass. Heating is by steam and ventilating by the Hippard apparatus.

OWING to rush of work in preparing for the exhibitions Mr. Elmer D. Smith was unable to prepare his usual batch of seasonable chrysanthemum hints for this issue. He will, however, continue his articles at an early date.

MR. WM. SCOTT has been doing the World's Fair the past week and as a consequence was unable to give us his customary batch of miscellaneous seasonable hints for this issue. He will be on deck again next week.

DO YOU WANT a list of the leading park superintendents of America? You will find such a list in our trade directory and reference book.

DO YOU WANT a list of the leading cemetery superintendents? You will find such a list in our new trade directory and reference book.

WOOSTER, O.—The Wooster Floral Club will give its annual chrysanthemum show November 8, 9 and 10.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

CUT FLOWERS.

Novelties and New Introductions in

ROSES AND CHRYSANTHEMUMS.

Fine Exhibition Stock.

THOS. YOUNG, JR.,
WHOLESALE FLORIST,
20 WEST 24TH ST., NEW YORK.

WHOLESALE FLORISTS

La Roche & Stahl

N. E. CORNER
13th & Chestnut Sts.,
PHILADELPHIA.

THE WISCONSIN FLOWER EXCHANGE

WHOLESALE
Cut Flower Commission Dealers

468 MILWAUKEE ST.,
MILWAUKEE, WIS.

Solicit correspondence with growers of Roses, Carnations, Violets, American Beauties and other stock within shipping distance of Milwaukee, with a view to handling their consigments.

C. A. KUEHN,

(Successor to ELLISON & KUEHN),
WHOLESALE
FLORIST,
1122 FINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

When writing to any of the advertisers on this page please mention the American Florist.

J. B. DEAMUD & CO.

Wholesale Cut Flowers.

OUR SPECIALTIES AT PRESENT:

Chrysanthemums, Valley, and the finest stock of Roses in the market. All shipping orders are filled from fresh cut stock of our own growing.

45 Lake Street, CUT FLOWER EXCHANGE, **CHICAGO.**

"JACQ" ROSES the Year Around.

We are now Cutting THOUSANDS DAILY of

METEOR ROSES.

The finest Crimson Summer Rose, equal to "Jacq" in color and far superior in keeping qualities. Can supply it in quantity at all times. Prices on application.

F. R. PIERSON COMPANY,
Tarrytown-on-Hudson, N. Y.

CHRYSANTHEMUMS that have no superior.
VALLEY that can't be beat—it is fine.
ROSES, all varieties first-class.
CARNATIONS in variety.
ADIANTUM, ASPARAGUS and all flowers in season.

Send in your orders; I can fill them; and will properly pack and ship on time.

T. J. CORBREY, Wholesale and Commission Florist,
PHONE, MAIN 4508. 45 Lake St., CHICAGO.

FOR DECORATING,

NOTHING CAN EQUAL
ASPARAGUS PLUMOSUS NANUS.
CUT STRINGS 8 TO 12 FEET LONG, 50 CTS.
12 TO 18 FEET LONG, $1.00.

Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.

W. H. ELLIOTT, Brighton, Mass.

HAIL

LOCK THE DOOR BEFORE THE HORSE IS STOLEN.
DO IT NOW.
JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

FLORAL DESIGNS

The Cut Flower Worker's Friend. Fine book of 160 pages. Send $3 50 for it, to
J. HORACE McFARLAND, Harrisburg, Pa.

CHRYSANTHEMUMS.

Can now supply fine Cut Blooms of "Mums," at from 5 cents to 25 cents each.

PRICES ON SHOW BLOOMS ON APPLICATION.

Also Orchids, Beauties, Brides, Mermets, Etc. The best in the market.

EXPERT PACKING, AND SATISFACTION GUARANTEED.

H. L. SUNDERBRUCH,

4th and Walnut Streets, CINCINNATI, OHIO.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO.

	Per 100
Perles, Niphetos, Gontier	$ 2.00@$ 3.00
Bride, Mermet, La France, Victoria	3.00@ 4.00
Testont, Meteor	5.00@ 6.00
Am. Beauty	10.00@ 18.00
Roses, our selection	3.00
Carnations, long	1.00@ 1.50
" short	.50@ 1.00
Valley	4.00@ 5.00
Chrysanthemums, common	2.00@ 6.00
" fancy	8.00@ 30.00
Smilax	15.00@ 18.00
Ferns	per 1000 $2.50. .50
Adiantum	1.00
Fresh Cycas leaves	$1.00 each.

Western Agent for the GREAT ANTIPEST.

Kennicott Bros. Co.
WHOLESALE CUT FLOWERS,
34 & 36 RANDOLPH STREET,
CHICAGO, ILL.
WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist,
126 Dearborn St., CHICAGO.
Agent for finest grades Waxed and Tissue Papers.

NILES CENTER FLORAL CO.
Incorporated.
WHOLESALE GROWERS OF
CUT FLOWERS of ALL KINDS
and Dealers in FLORISTS' SUPPLIES.
CHAS. W. McKELLAR, Mgr.
In Chicago Cut Flower Exchange,
45 Lake St., CHICAGO.

DAN'L B. LONG,
COMMISSION • FLORIST,
495 Washington St., BUFFALO, N. Y.
FORCING BULBS, FLORISTS' SUPPLIES,
LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application.

H. L. SUNDERBRUCH,
Wholesale Florist
4TH AND WALNUT STREETS,
Cincinnati, O.

CUT SMILAX,
15 cts. per string till November 1st. Quality first-class.
Special attention to orders by wire.
J. E. BONSALL & SON, 308 Garfield Ave., Salem, O

WHOLESALE FLORISTS,
JOBBERS IN . . .
. . FLORISTS' SUPPLIES,
METS, FLORISTS'
BRIDES, VASES.
GONTIERS,
CARNATIONS,
ALWAYS ON HAND.
1 Music Hall Place,
BOSTON, MASS.
HORTICULTURAL AUCTIONEERS. . .

Wholesale Markets.

Cut Flowers.

NEW YORK, Oct. 21.

Roses, Gontier, Perle, Cusin. Watteville	.50@ 3.00
" La France, Mermet, Bride, Hoste	.50@ 3.00
" Bridesmaid, Angusta Victoria	1.00@ 5.00
" Testout, Meteor	1.00@ 5.00
" Beauty	5.00@20.00
Carnations	.50@ 1.00
Chrysanthemums, selected	12.00@17.00
" small	1 00@ 3.00
Violets	.25@ .75
Valley	2.00@ 3.00
Smilax	12.00
Adiantums	1.00
Asparagus	50.00

BOSTON, Oct. 21.

Roses, Gontier, Niphetos, Perle, Sunset	1.00@ 2.00
" Bride, Mermet	1.50@ 2.00
" Meteor, La France	2.00@ 4.00
" American Beauty	5.00@20.00
Carnations	.50@ 1.50
Asters	1.00
Chrysanthemums	8.00@20.00
Lily of the valley	4 00
Tuberoses	.50@ 1.00
Violets	.25@ .60
Smilax	12.00
Adiantum	1.00
Asparagus plumosus	50.00

PHILADELPHIA, Oct. 23.

Roses, Perle, Gontier, Niphetos	1.50@ 2.00
" Cusin, Watteville, Hoste	1.50@ 2.00
" La France, Mermet, Bridesmaid	3.00@ 4.00
" Bride, Testout	3.00@ 4.00
" Meteors, Kaiserin	4.00@ 6.00
" Belle, Beauty	12.00@16.00
Carnations, long	1.00@ 1.25
" short	.75
Violets, per 100 bunches, single	3.00@ 4.00
" double	.50
Chrysanthemums, first choice	16.00@25.00
" second choice	8.00@12.00
" sprays, per 100 flowers	2 00@ 3.00
Valley	3.00@ 4.00
Mignonette	1.00@ 2.00
Cosmos	.25
Bouvardia, hellotrope	1.00
Smilax	12.00@15.00
Asparagus, per bunch	.50
Adiantum	1.50
Mushrooms, per pound	.50@ .80

CHICAGO, Oct. 24.

Roses, Gontier, Niphetos	2.00@ 3.00
" Bride, Mermet, La France	3.00@ 4.00
" Kaiserin	3.00@ 4.00
" Meteor, Testout	5.00@ 6.00
" Beauties	8.00@18.00
Carnations, long	1.00@ 1.50
" short	.50@ 1.00
" fancy	2.00
Valley	4.00@ 5.00
Chrysanthemums, common	2.00@ 6 00
" fancy	8.00@40.00
Cosmos, per bunch	.35
Violet double	1.00@ 1.50
Smilax	15.00@18.00
Asparagus	60.00

ST. LOUIS, Oct. 23.

Roses, Gontier, Perle, Niphetos	2.00@ 3.00
" Bride, Mermet, La France, Hoste	3.00@ 4.00
" Wootton	2.00@ 3.00
" Meteor	3.00@ 5.00
" Beauty	5 00@20.00
Carnations, short	.75@ 1.00
" long	1.00@ 2.00
Chrysanthemums, common	2.00@ 6.00
" fancy	10.00@30.00
Smilax	12.00@18.00
Adiantum	1.00@ 1.25
Ferns, fancy	.20

CINCINNATI, Oct. 21.

Roses, Beauty	5.00@15.00
" Mermet, Bride, La France	4 00
" Perle	3.00
Carnations, long	1 00
" short	.50
Chrysanthemums	5.00@ 25.00
Valley	4.00
Smilax	15.00
Asparagus	50.00@75.00
Adiantum	1.00@ 1.25

BUFFALO, Oct. 23.

Roses, Beauties	12.00@20.00
" Gontier, Niphetos, Hoste, Perle	3.00@ 4.00
" Mermet, Bride, Meteor, Testont	4.00@ 6.00
" La France	5.00@ 8.00
Carnations, long	1.00@ 1.25
" short	.75
Valley	5.00
Violets	.75
Chrysanthemums, fancy	10.00@20.00
" common	5.00
Smilax	12.00@15.00
Asparagus	50.00

Peck & Sutherland,
Successors to WM. J. STEWART,
Cut Flowers AND Florists' Supplies
WHOLESALE.
67 Bromfield Street, BOSTON, MASS.

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St., BOSTON, MASS.

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN
AND SHIPPERS OF
CHOICE FLOWERS.

WALTER F. SHERIDAN,
• WHOLESALE •
FLORIST,
32 West 30th Street. NEW YORK.
Roses Shipped to all points. Price list on application.

JOHN YOUNG,
Commission Dealer in
CUT FLOWERS.
WHOLESALE.
53 WEST 30TH ST., NEW YORK.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT • FLOWERS,
51 W. 30th St., NEW YORK.

JAMES HART,
WHOLESALE FLORIST,
117 W. 30TH ST., NEW YORK.
The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHRS,
WHOLESALE
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.
Established 1879.

MILLANG BROS.,
Wholesale Florists,
17 WEST 28TH STREET,
NEW YORK.
BRANCH: Cut Flower Exchange, 408 E. 34th Street.

MICHAEL A. HART,
Wholesale AND Commission Florist
113 WEST 30TH STREET,
• • • NEW YORK.
THE FINEST ROSES AND CARNATIONS.
Branch, at Cut Flower Exchange, 408 E. 34th St.

Edward C. Horan,
34 W 29th Street, NEW YORK,
WHOLESALE FLORIST.
Careful Shipping to all parts of the country.
Price list on application.

W. ELLISON,
WHOLESALE
Cut Flowers AND Florists' Supplies
1402 PINE STEET,
St. Louis, Mo.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and treasurer, 116 Chambers street, New York. Next annual meeting second Tuesday in June, (will probably be held in Toronto.)

VISITING CHICAGO: T. M. Griswold, Herman Simmers, W. A. Brotherton.

REGARDING ONION SEED prices for 1894, the impression seems to be generally that outside of white varieties prices will be lower than last season.

S. B. DICKS of Cooper, Taber & Co. left New York October 21 on the Etruria, after a ten week's stay in this country. He found trade very satisfactory in every respect.

News Notes.

TUSCOLA, ILL., is reported to be in need of a florist establishment.

GUELPH, ONT.—W. M. Mann has added a new house 60x21 and put in another boiler. He now has four fine houses.

NEW HAVEN, CONN.—The annual chrysanthemum show by the New Haven Club will be held at Harmonie Hall, November 8, 9 and 10.

HAMILTON, ONT.—John Morgan, formerly of Englewood, Ill., has located here and started in business at 471 King William street this city.

GREENFIELD, IND.—Jacob Forest, who has leased the Roger greenhouse, has overhauled and restocked the establishment and built a new office.

ATLANTA, GA.—Mrs. A. Lambert announces a fall opening and chrysanthemum show at her greenhouses beginning October 30 and continuing one week.

MILWAUKEE, WIS.—N. Zweifel has built a new place at 14th street and Groeling avenue, consisting of three houses 18x85 each. One is planted to roses, another to carnations and the third is devoted to general stock.

YONKERS, N. Y.—A chrysanthemum show will be held here October 31 to November 4 inclusive, under the auspices of the Yonkers Teutonia Society. A premium list has been issued and copies may be had on application to the manager of the show, Mr. John Beattie, Riverdale, New York City.

DALLAS, TEX.—The floral display at the Texas State Fair and Dallas Exposition this year was finer than ever and attracted much favorable comment. Of the first premiums taken by professional florists 10 were awarded to Ernst Nitsche, 8 to Texas Seed and Floral Co., 4 to H. Holtkamp and 4 to Grant C. Smith.

NYACK, N. Y.—A man calling himself W. B. Heymen and claiming to be a florist endeavored to work a novel swindle here. He visited several florists and offered to buy their establishments. After getting price and terms settled satisfactorily at one place he "found himself short of money for the moment" and wanted to get a check cashed. He did not succeed in getting any of his checks cashed here but did succeed in borrowing $4 from one florist. He will probably try to work this scheme elsewhere, and florists should be on their guard. He is a smooth faced man, with features resembling those of J. K. Emmet, the well-known comedian.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By a thorough, practical gardener and florist, care of gentleman's private or commercial place. Roses, carnations, violets a specialty. Best references. Address
G W, box 38, Brooklyn Village, Ohio.

SITUATION WANTED—As assistant, by sober, industrious, reliable and competent young man; 8 years' experience in growing cut flowers and plants. Best of references. Michigan preferred. Address
ASSISTANT, care American Florist.

SITUATION WANTED—By a single young man who thoroughly understands the growing of palms, roses, carnations and general greenhouse stock; long experience in U. S. and Europe; sober and steady. Good references. Address FLORIST.
care American Florist, Chicago.

SITUATION WANTED—By a first class florist. German, age 26; thoroughly experienced in roses, carnations, palms, propagating any kind of forcing stuff, cut flowers, decorations and design work, also mums for exhibition. Private place preferred. Best of references. Address G R,
118 Main street, Clarksville, Tenn.

FOR SALE—1,200 feet 4-inch pipe and fittings (Weathered make), as good as new.
MRS. GEO. WALDBAUER, Saginaw, Mich.

WILL EXCHANGE.

L. Cand., Iberis semp., Astilbe jap., Freesias, Crape Myrtles, Caladium esculentum, Grevillea robusta, Clematis Davidsoni, Pontederias, Canna Star of '91, Tecoma radicans, Sarracenias purpurea and flava, Dble. White Altheas, and other shrubs, Eulalia uni. and Amaryllis Trentil, for usable plants, etc. What have you? **M. R. CATLIN CO., Richmond, Va.**

For Sale.

My stock (20 shares) in Probst Bros. Floral Co. For particulars, write
SAMUEL MURRAY,
1017 Broadway, KANSAS CITY, MO.

FOR SALE.

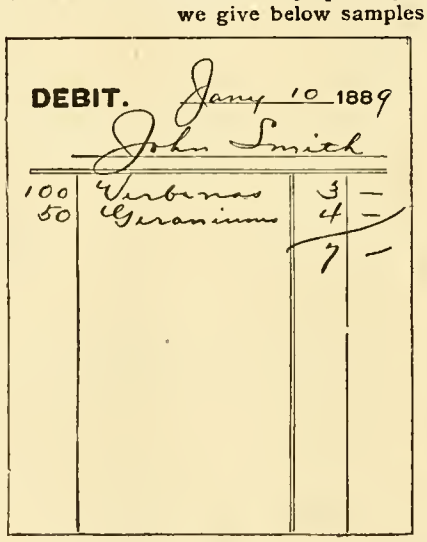
Wishing to retire from active business, I will sell the largest retail florist business in Union county. Store fixtures, good will and everything in retail department. Business city of 40,000 inhabitants. Full particulars upon application to
JOHN WHITE, 87 Broad St., Elizabeth, N. J.

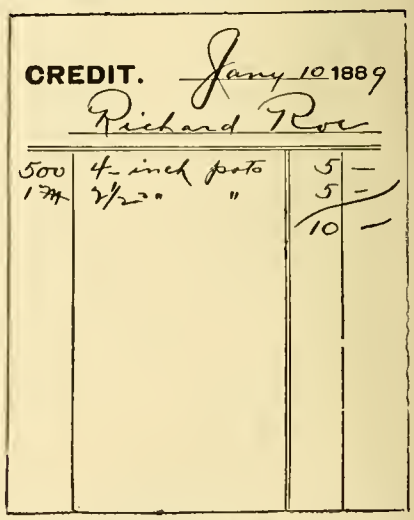
Situation Wanted.

By single man to assist on private place; English; 7 years' experience. Good references. Age 21 years. Address
William M. Tiplady,
care J. C. Vaughan, P. O. box 688, Chicago.

OUR TRADE DIRECTORY AND REFERENCE BOOK WITH CORRECTION SHEET FOR 1893 $2.00. AMERICAN FLORIST COMPANY, CHICAGO.

We can now furnish in any quantity desired Debit and Credit Tickets of which we give below samples reduced one-half in size.





The debits are printed in black and the credits in red, so they can be readily distinguished. They are put up in blocks of 100; 50 of each, placed back to back; thus but one block will have to be carried. By means of these tickets an entry of a sale or receipt of goods can be made anywhere—in the house or in the field—and afterwards filed. Tickets for each transaction in your business will make data from which a bookkeeper can readily work. With this simple and easy means of keeping a record of your business can you afford to neglect so important a matter?

Price of Tickets, postpaid, 100, 20c.; 200, 35c.; 300, 50c.; 500, 75c.; 1000, $1.40.

AMERICAN FLORIST CO.,

FALL BULBS, PALMS, Etc.

CHINESE NARCISSUS, genuine imported, ready, per 100 $5.50.
LILIUM AURATUM, genuine imported, ready, per 100 $7.00 and $9 00.
CALLAS, fine, medium sized bulbs, per 100, $5.00.
ROSE C. SOUPERT, 2½-inch, fine stuff, per 100 $3.50; 3½-inch, per 100 $8.00.
LATANIAS. 4-inch stuff, grown cold, well rooted, 3 to 5 character leaves, ready for 5-inch pots, per dozen, $4.00; per 100, $30.00.
PHŒNIX RECLINATA, 5-inch, good value at doz. $5.00.
GERANIUMS, 2½-inch, named sorts, per 100 $4.00. Our selection, per 100 $3.00.
CHRYSANTHEMUM, cut blooms ready.
PANSY PLANTS, very fine, per 1000, from seed bed, $5.00.
BOUQUET GREEN now in stock, (order early), per 100 lbs. $5.50.

Vaughan's Seed Store,

26 Barclay St., NEW YORK. 148 W. Washington St., CHICAGO.

Azalea Indica, fine plants, now on the way from Ghent; we offer **in original cases** of **fifty plants** assorted in the best market sorts, including Deutsche Perle, Mme. van der Cruysen, etc., etc., in two sizes: **the first** or about 10 to 12 in. diam. of crowns for $20 net the case; the second 12 to 14 in. diam. of crowns for $30 net the case of fifty.

Bulbs and Florists' Seeds of all kinds; for full detail see our trade list, mailed free to applicants. **Roman Hyacinths** and **Lily of the Valley Pips** our two great specialties. Prices for quantities quoted by correspondence.

Fenster Pappe, the new German substitute for glass on frames. For detail see previous advertisements. We furnish **original Rolls of about 110 yards for $9.00 net cash. Trial Rolls, enough to cover four sashes for $1.00 cash;** these latter will travel by express for little cost, weighing below 10 lbs. Southern growers should not fail to try these; they will find this a most useful article that has come to stay.

August Rölker & Sons,

136 & 138 W. 24th St., P. O. Station E. **New York.**

SEND for Catalogue of



JAPAN BULBS, SEEDS and SHRUBS, ARAUCARIAS, TREE FERNS, AUSTRALIAN PALM SEEDS, CALIFORIA BULBS and SEEDS to

H. H. BERGER & CO.,
Established 1878. SAN FRANCISCO, CAL.

WE CAN SUPPLY . .
VOLUME 8
— OF THE —
AMERICAN FLORIST
Bound in Half Leather.

PRICE $3.00
By Express not prepaid.

AMERICAN FLORIST CO.,
322 Dearborn Street. CHICAGO.

Always mention the American Florist when writing to advertisers.

HULSEBOSCH BROS.,
BULB AND PLANT GROWERS,
OVERVEEN, near Haarlem, HOLLAND.

	Per 100	1000
Lilium Harrisii, 4 to 5-inch in circ.	$1.75	$16.00
" " 5 to 7-inch in circ.	2.50	20.00
" " 7 to 9-inch in circ	4.75	42.00
Roman Hyacinths, top roots	3.00	24.00
" " selected	2.25	21.00
" " regular size	2.00	19.00
Italian, blush white Roman, selected	2.50	21.00
Freesia refracta alba	.75	5.00
Narcissus totus albus	.70	6.50
" " " grandiflorum	1.25	10.00
" Chinensis (Sacred Lily), extra	5.50	50.00
Single Tulips, mixed, gardening	.75	6.00
Double " " "	.90	7.00
Single " " extra fine.	.85	7.50
Double " " extra fine.	1.00	8.00
Single garden hyacinths, mixed.	2.25	18.00
Double " "	2.50	22.00
Single forcing " "	2.50	21.00
Double " " "	3.00	25.00

Single and double named Hyacinths, Tulips, Crocus, etc., etc., at low rates.

A. HULSEBOSCH,
P. O. Box 3118. Warehouse, 58 West Street,
NEW YORK CITY.

G. J. MOFFATT,
Manufacturer of
PAPER BAGS AND ENVELOPES
Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN, CONN.

Bulbs & Plants.
FOR CATALOGUES, ADDRESS
C. H. JOOSTEN,
IMPORTER,
3 COENTIES SLIP, NEW YORK.

WE SELL MUSHROOM SPAWN,
LILIUM HARRISII AND DUTCH BULBS.
Special Low Prices to Florists & Dealers.
WEEBER & DON,
Seed Merchants and Growers,
114 Chambers Street, NEW YORK.

— OUR —
TRADE * DIRECTORY
AND
Reference Book
WITH
SUPPLEMENT for 1893,
bringing the list of names and addresses up to date,
$2 00
AMERICAN FLORIST CO.
P. O. DRAWER 164. CHICAGO.

Watson's Corner

My fourth consigument of

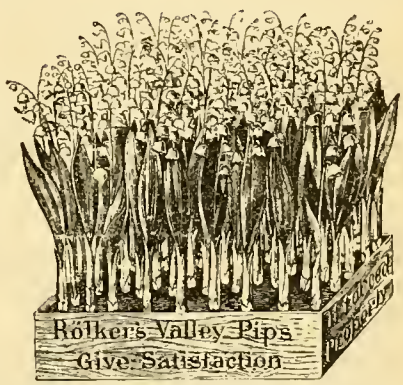
THE W. P. BRAND

("Watson's Prolific")

Mushroom Spawn will arrive November 10th. I have booked largely in advance, but have still a few thousand pounds unengaged. Let me hear from you if you want to make money this winter.

MUSHROOMS OF AMERICA, Palmer, $2.00
FALCONER'S MUSHROOM CULTURE, 1.50
ROBINSON'S MUSHROOM CULTURE, .50
By mail postpaid on receipt of price.

G. C. WATSON,
Wholesale Seedsman and Commission Merchant,
1025 Arch St., Phila., U. S. A.



BEST GERMAN FORCING PIPS
Price: $9 the 1,000,
$20 the box of 2.500,
Less ten per cent. for prompt cash.
August Rölker & Sons
New York, P. O. Station E.

Z. De Forest Ely & Co.
WHOLESALE SEEDSMEN,
Growers AND Importers of Bulbs.
JOBBERS IN
FLORISTS' SUPPLIES.
1024 Market Street, PHILADELPHIA, PA.
Price lists to dealers on application.

Mushroom Spawn.
New importation in from England, 10 lbs. for $1.20; 100 lbs. for $8.00.
W. W. Barnard & Co.
6 and 8 N. Clark Street, CHICAGO.

GREENHOUSE HEATING.
BY A. B. FOWLER.

Explains fully all the best systems of heating greenhouses by both hot water and low-pressure steam. Tells you the points to consider in selecting an apparatus. How to adjust same to various locations; gives the results of the latest scientific experiments Shows how to compute the number of feet of pipe required for a given space; draft and other important matters.

It is highly commended by Mr. John Thorpe and others. Postpaid, 75c.

Sent on receipt of price. Address,
AMERICAN FLORIST,
CHICAGO.

Judging at the Toronto Show.

I was very glad to see a letter on this subject in your issue of October 12 from Mr. F. G. Foster, because I think that whoever is right or wrong good is likely to come from having the matter ventilated. There are one or two points however on which I should like to set both Mr. Foster and myself right. I did not lose sight of the fact that the schedule called for "the best *display* of plants" but I contend that the plants were not displayed in the pyramids, one could only see one side or the top of most of them. Certainly the most artistic table (as Mr. Foster admits) did not contain the best plants, but if the prizes were awarded for the best plants, should not Mr. Houston's table—which Mr. Foster says contained "the choicest and best plants in the hall" —have come in for one, even though many of them were literally buried. Mr. Foster must have seen them to know whether they were buried or not. If the plants in the other pyramids were not actually buried they were as I said before half hidden. Thus according to Mr. Foster's own words "one of the most artistic pieces of nature I ever saw" was awarded fourth prize and "the choicest and best plants in the hall" were left out altogether.

As to the "hybrid" table Mr. Foster is in error if he thinks that I took any of the credit for its get up, I merely worked on it mechanically and I wish to say that I never handled healthier, better grown or more saleable florist's stuff. The get up of the table was at least an endeavor to get out of the old rut, every plant could be seen and judged, so that if, as I understand Mr. Foster to say, the *plants* were judged (not the whole table as an artistic production) I can see still less than before how this "hybrid" came to be left out in the cold. I will readily admit that my statement that Mr. Foster *asked* for assistance was made from hearsay but it was emphazised in my mind by what he said last year, viz: that he felt very much inclined to go to the manager and ask for help in judging these same tables. However, if I did an injustice to him or his associates on this point I beg humbly to apologize right here.

I am very glad to hear that Mr. Foster is still a strong advocate of the single judge system, so am I, but I cannot help sympathizing with the single judge all the same.

Now in conclusion I think the whole thing comes to this: Tight bouquets had to go, and now tight inartistic displays of plants must go, whether the class is open to all or not, and it is the duty of the Gardeners' and Florists' Association to see to it that the wording of the schedule is made especially clear next year.

A. H. EWING ("E.")

Toronto, October 16, 1893.

THE Society of Indiana Florists has issued a program for its coming chrysanthemum show at Indianapolis, and the secretary has favored us with a copy. It includes the full premium list with announcements of special attractions for each day and the complete musical program.

B. S. G.—The nearest we have come to getting exact data on the point you raise will be found in the article on page 1302 of our issue for July 20 last (No. 269), to which you are referred.

WHEN writing our advertisers please use one of your printed business letter heads or enclose your business card.

Field-Grown Carnation Plants.

We still have a few thousand extra fine healthy plants of the following varieties:

Portia, Garfield, Mrs. F. Mangold, Rosalind, Mrs. Carnegie.

PRICE, $5.00 PER 100.

ROSES. Bon Silene, Safrano, 4-inch pots . . . $10 00 per 100
Bon Silene, Safrano, Mermet, Perle, 3-in. pots, 7.00 per 100

J. L. DILLON, Bloomsburg, Pa.

All Florists,

and particularly those who visit the Philadelphia Show, Nov. 7th to 11th, are cordially invited to come to Kennett, and see **Ophelia** and **Sweetbrier** in bloom.

Trains Leave Broad Street Station, Philadelphia, 7:17 and 11:12 a. m.; 2:53, 4:32 and 6:23 p. m.

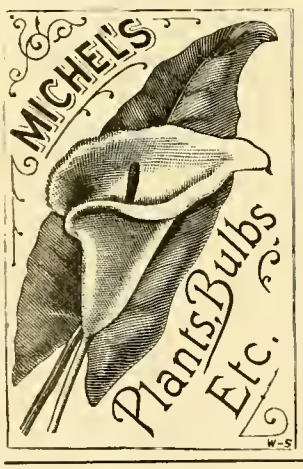
EDW. SWAYNE,
CARNATIONIST,
Kennett Square, Pa.

FIELD-GROWN
CARNATIONS

2000 Daybreak	per 100	$10.00
500 Mangold	"	5.00
500 Harrison	"	5.00
5000 Hinze's	"	5.00
1000 Garfield	"	5.00

VIOLETS. 5,000 Marie Louise, per 100, $5.00. 10 per cent. discount for cash with order.

NATHAN SMITH & SON,
167 W. Maumee St., Adrian, Mich.



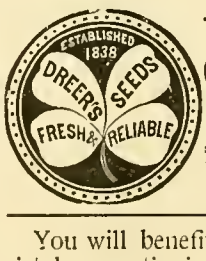
Write for Wholesale List.
MICHEL PLANT AND BULB CO., ST. LOUIS, MO.

Double White Primulas.

$6.00 and $8 00 per 100.

CASH WITH ORDER.

S. TAPLIN,
962 FORT ST., W., DETROIT, MICH.



TRY DREER'S
GARDEN SEEDS,
Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
HENRY A. DREER,
Philadelphia, Pa.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

FIELD-GROWN
CARNATIONS

MRS. FISHER, MRS. CARNEGIE,

and a general line of other standard sorts and new varieties. Fine, healthy plants, $5.00 to $7.00 per hundred.

CASH WITH ORDER.

Fred. Bürkii,
Bellevue, Allegheny Co., Pa.

40,000 Carnations.

FIELD-GROWN. FREE FROM RUST. Per 100
ALL SOLD EXCEPT

1000 Grace Wilder	$ 5.00
1000 Portia	5.00
500 Tidal Wave	5.00
1000 Orange Blossom	4 00
3000 Hinze's White	4.00
Also extra fine strain of Pansies. Cold frame size	per 1000 $5.00; .65

CASH WITH ORDER.

Address GEO. B. WHITEHEAD,
Lock Box 116. Greens Farms, Conn.

IT COSTS NO MORE TO
GROW GOOD CARNATIONS
THAN TO GROW POOR ONES.

We have a good stock of field-grown Carnations of all the best varieties. Send for price list.

Geo. Hancock,
GRAND HAVEN, MICH.

Carnations.

Only a few field-grown plants remaining. Good plants and good kinds.

C. J. PENNOCK,
THE PINES. KENNETT SQUARE, Chester Co., PA.

CARNATIONS

Strong, healthy, field-grown plants.

PORTIA	$ 6 00 per 100
LIZZIE McGOWAN	6 00 "
TIDAL WAVE	6 00 "
FRED. DORNER	7 00 "
GARFIELD	7 00 "
AURORA	8 00 "

N. S. GRIFFITH, Independence, Mo.

CARNATIONS.

We have 2000 extra large plants for sale, Hector and Mrs. Fisher; the lot for $80.00 cash. Also 500 mixed plants, good varieties, $3.50 per 100.

W. C. BRYFOGLE & BRO., Bloomsburg, Pa.

FOR SALE 10,000 CARNATIONS.

Good, strong, healthy plants, $6.00 per 100, such as Hinze's White, Wm. Swayne, W. F. Dreer, Wanderer Morning Ray, Golden Gate, Springfield, Seawan, Sunrise, Portia. Address
I. LARKIN, Toughkenamon, Pa.

Phœnix rupicola.

This useful and beautiful Date Palm in EXTRA FINE PLANTS, growing in from 7 to 10-inch pots, from $3.50 to $7.50 each, according to size.

EDWIN LONSDALE, Wyndmoor,
STATION "G," PHILADELPHIA.
(Chestnut Hill P. O.)

EXTRA HEAVY

TWO YEAR OLD HERMOSA ROSES.

We have growing in the open ground a beautiful lot of extra heavy, two year old Hermosa Roses. The plants average 24 to 30 inches in height, bushy and strong and will make fine plants to pot up into 6 and 7-inch pots for next **SPRING SALES.** *Price, $15.00 per 100; per 1000 $140.00.*

IMPORTED BUDDED ROSES.

Our importations of these arrive the latter part of November and promise to be very fine this season. We offer all the leading varieties as follows:

Alfred Colomb, Anna de Diesbach, Baron de Bonstettin, Baroness Rothschild, Boule de Niege, Duke of Edinburgh, Fisher Holmes, Gen. Jacqueminot, Gloire de Mousseuses (Moss), Magna Charta, Merveille de Lyon, Mons. Boncenne, Mrs. John Laing, Paul Neyron, Prince Camille de Rohan, Ulrich Brunner, White Baroness, Xavier Olibo,

$12.00 per 100; $100.00 per 1000.

Alfred K. Williams, Blanche Moreau (Moss), Captain Christy, Countess Murinais (Moss), Duchess of Albany, Earl of Dufferin, Gloire de Margottin, Persian Yellow, Queen of Queens, Rugosa, Rugosa Alba, Souvenir de Malmaison.

$15.00 per 100.

Gloire de Dijon. Marechal Niel.

Extra fine stock. $20.00 per 100.

NOW is the time to order the above. Pot the plants as soon as received and plunge the pots into a cold rame, where they will winter at little expense. Root action will begin almost at once, and the plants will be in the best possible condition to bring into your houses at the proper time, with much better result than if potted up late in winter or early spring.

If you are in need of **PALMS, FERNS** or other **DECORATIVE STOCK** do not fail to consult our trade list. We have forty houses filled with this class of plants, all in the best possible condition for immediate sales.

HENRY A. DREER, Philadelphia, Pa.

The Grand New Forcing Rose,

"American Belle."

Prices and full particulars on application.

John Burton, Chestnut Hill, Philadelphia

Hybrid Perpetual Roses,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

CHOICE SWEET PEAS.

Being the largest growers of the above in the world the trade are invited to send a list of their requirements and secure low prices for Fall delivery.

SHERWOOD HALL NURSERY CO.
Menlo Park and San Francisco, Cal.

Sweet Pea Seed

MISS BLANCHE FERRY. . . $.60 lb.
QUEEN OF ENGLAND . . . 1.50 lb.
BUTTERFLY, ...60 lb.
MIXED 45 lb.
Cash with order. . . .

LAKE GENEVA FLORAL CO.,
LAKE GENEVA, WISCONSIN.

SMILAX, 2½-inch pots, $2.00 per 100; $15.00 per 1000
VIOLETS, Schoenbrunn, best single, large clumps, $8.00 per 100. Cash with order.

P. M. DeWITT,
Station N. Torresdale, Philadelphia.

Mention the American Florist when writing to advertisers on this page.

10,000 JACQ ROSE PLANTS

From open ground, 1 and 2 year old, on their own roots, well branched.

2 feet high.....$10.00 per 100
2 to 2½ feet high..... 12.00 "
2½ to 3½ feet high..... 15.00 "
Sample of 8 for $1.00 in advance.

JORDAN FLORAL CO.,
706 OLIVE ST., ST. LOUIS, MO.

ROSES.

		Per 100	Per 1000
1560	Perle, 3-inch	$ 5.00	$40.00
1000	" 2½-inch	3.00	25.00
600	Bride, 2½-inch	3.00	25.00
1200	Mermet, 2½-inch	3.00	25.00
75	Waban, 2½-inch	3.00	
200	Hoste, 2½-inch	3.00	

BROWN & CANFIELD, Springfield, Ill.

ASPARAGUS PLUMOSUS NANUS.

Well established, 4-inch pot plants, $20 per 100.

JOSEPH KIFT,
Chester Co., WEST CHESTER, PA.

You Will all Want

The New Yellow Coleus **GOLDEN CROWN,**
As it takes all other yellows down;
And will soon be all the go,
Because so very easy to grow.

There is nothing **Pale** or **Weak** about it. You **can't afford** to run without it; $3.00 per doz. Orders booked now for delivery November 1st, or as soon as ready. Or Gibson's beautiful scented Hybrid Pansies, 2000 seeds $1.00. Or the finest Double Fringed Petunia (Dreer's Strain), hybridized by hand, 1000 seeds $1 50. Snow Crest Daisy, $5.00 per 100. Other specialities later. Or extra large mixed Freesia Bulbs, $1.00 per 100; 2nd size 50 cts., and small bulbs 25 cts. per 100. Cash with order please.

Address **J. C. GIBSON, Woodbury, N. J.**

ROSES.

Fine healthy stock. Per 100 P. 1000

Perles, Mermets, The Bride, Sunset, Niphetos, Bon Silene, Souv. d'un Ami, Duchess of Albany, Mme. Cusin, Mme. de Watteville, from 3-in. pots..... $6.00 $50.00

CARNATIONS.

Fine, healthy stock.

PURITAN, best white, early and productive, **Aurora, Grace Darling, Constance, W. F. Dreer, J. R. Freeman, Portia, The Century, John McCullough, Orange Blossom.**

Price, 1st size, $8.00 per 100; $70 00 per 1000.
2nd size, $6.00 per 100; $50.00 per 1000.

Daybreak, Pearl, Crimson Coronet.
Price, $10.00 per 100.

NOTE.—Our carnations have been kept sprayed and are in fine, healthy condition.

SMILAX, from 2½-inch pots..... 2.50 20.00

Lots of other Fine Stock.
Send for new list.

WOOD BROTHERS,
Fishkill, N. Y.
Mention American Florist.

Forcing Roses.

A stock of the best varieies always on hand.

M. A. HUNT, Terre Haute, Ind.

ROSES.

FINE, HEALTHY STOCK,

from 2½-inch pots. All the leading forcing and fancy garden sorts of Teas and Hybrid Teas.

Prices on application.

MEMPHIS FLORAL CO., Memphis, Tenn.

B. F. BARR,

Box 428. **LANCASTER, PA.,**

Grower and Shipper of **CHOICE ROSES, CARNATIONS, VIOLETS, ETC.**

All orders promptly filled with fresh flowers. Cash before shipment, or C. O. D. if so desired. Send for prices.

Recent Legal Decisions.

Liability of express company for delivery to impostor.

An express company is bound at its peril to deliver packages consigned to its care; and a failure to do so, not induced by any negligence of the consignor, will not excuse it, regardless of the fraud or imposition which induced a delivery to an impostor. Shearer vs. Pacific Exp. Co. Ill. App. S L. G. D. 1700.

State discharge of insolvents does not bind non-resident creditors.

A state insolvent law is not extraterritorial in its operation, and consequently a discharge under it cannot release a debtor from his contracts with citizens of other states, unless they voluntarily participate in the insolvency proceedings. The discharge of the debtor and his subsequently acquired property from liability for his antecedent debts is subject to the qualification that non-resident creditors who do not voluntarily place themselves within the jurisdiction of the insolvent court shall not be affected or bound. Downes vs. Fisher. Ct. App., Md. 27 At. Rep. 121.

Liability of incoming partner for debts of old firm.

It is a universally conceded doctrine that, when a new member is admitted to a firm, he becomes one of the firm for the future, and not for the past. There is not only no presumption that the incoming partner assumes pre-existing debts, but the presumption is that he does not. In order to render an incoming partner liable to the creditors of the old firm, there must be some agreement, express or tacit, to that effect entered into between him and the creditors, and founded on some sufficient consideration. Wolff vs. Madden. Sup. Ct. Wash. 33 Pac. Rep. 975.

Siebrecht & Wadley,

ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.

Palms,

ORCHIDS

Roses,

and New Plants.

FRESH DRACAENA CANES NOW READY.

ORCHIDS.

The Finest Stock in the World.

SANDER'S,

ST. ALBANS,

ENGLAND.

Thirty minutes from London.

Our Mr. A Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

Established and Imported

ORCHIDS.

Ig. FORSTERMAN,

Newtown, N. Y.

When writing to any of the advertisers on this page please mention the American Florist.

HOW TO GROW CUT FLOWERS.

A PRACTICAL TREATISE ON

THE CULTIVATION OF THE ROSE,

And Other Flowering Plants for **Cut Flowers**, sent to any address upon receipt of **$2.00.** M. A. HUNT, Terre Haute. Ind.

PANSIES.

THE PLANTS are getting very good this cool weather and are just the size for planting your frames. **Samples free.**

THE STRAIN is as good as I can make it—there is none better, may be none as good. A trial is the best evidence. Price, 75 cts. per 100; $3.00 per 500, delivery free, or $5.00 per 1000, you to pay the delivery.

GERANIUMS, Rooted Cuttings, from outdoor plants, all first-class varieties and good bedders. Price, in mixture $10.00 per 1000, in separate colors $12.00 per 1000; 50 cts. per 100 extra by the 100. Cash with the order or C. O. D.

L. B. 496. **ALBERT M. HERR, LANCASTER, PA.**

Rooted Cuttings

COLEUS, 10 sorts, **60c. per 100**

BY MAIL.

SAMPLE DOZEN, without names, mailed for 10 cts.

S. O. STREBY,

Lock Box 77,

UPPER SANDUSKY, OHIO.

CLEMATIS.

Large flowering, colors in variety, double and single, strong blooming plants. Plenty of Jackmanni and Henryi, best purple and white, $3.00 per dozen; $20.00 per 100. Send for list.

CYCLAMEN persicum splendens, blooming bulbs, $8.00 per 100.

Snowflake Daisy, double white, $1.00 per 100.

Longfellow Daisy, double red, $1.00 per 100.

F. A. BALLER, Bloomington, Ill.

VIOLETS. ROSES. VIOLETS.

Our violets are positively free from disease.

	Per 100	Per 1000
Violets Marie Louise, fine cuttings	$ 2.50	$25.00
Roses Gen. Jacqueminot, from 5-in. pots.	8.00	75.00
Roses Gen. Jacqueminot, from 4-in. pots.	6.00	55.00
English Ivies, 4 to 6 feet long, pot grown.	5.00	

When ordering, give directions how to ship. Cash with order, 5 per cent. discount.

JOHN RECK, Bridgeport, Conn.

CHOICE STOCK FOR FLORISTS.

Acalypha tricolor, strong stocky plants, from bed, $10.00 per 100.

Sanchezia nobilis variegata, grand new bedding plant rivaling the croton, free grower, strong pot plants, $2.00 per dozen.

Echeveria secunda glauca, $2.00 per 100.

Cannas—A. Bonvier, J. D. Cabos, Capt. Suzzoni, Paul Marquant, $20.00 per 100. Cash.

WM. TRICKER, DONGAN HILLS NEW YORK.

CYCLAMEN persicum giganteum. 3 inch pots $6.00 per 100

PANSIES, Mammoth Strains, 75 cts. per 100 $5.00 per 1000.

CARNATIONS, Dorner's Seedlings, $15 per 100

Daybreak $8.00 to $10.00 per 100

McGowan, Puritan, Wilder, and others, $8.00 per 100. Second size $6.00 per 100

Correspondence solicited.

Address **J. G. Burrow,** FISHKILL, N. Y.

SAMUEL S. PENNOCK,

Wholesale Florist

REMOVED TO REAR OF 42 S. 16th ST.,

Philadelphia, Pa.

PANSIES.

Best mixture of German bedding varieties now ready, per 1000 $5.00; per 100 60c.

We have also separate colors, ready in two weeks.

BRAUER & RICHTER,

McCONNELSVILLE, OHIO.

Best German Pansies.

From seed bench; strong plants in 50 sorts, 75 cents per 100; $5.00 per 1000.

JOHN P. TONNER,

45 Lake St,, CHICAGO, ILL.

Greenhouses at Mont Clare.

Orders received in English, German and Danish.

SUPERB PANSIES.

My "Rainbow Mixture"

is a combination of the very best strains in existence, and is sure to give satisfaction. Young plants 65 cents per 100 by mail; $5.00 per 1000 by express. Cash with order or C. O. D.

GEORGE CREIGHTON, Poughkeepsie, N. Y.

VIOLETS.

1000 Marie Louise, 3-in. pot-grown, $3.50 per 100. A few thousand frame-grown, healthy strong plants, at $2.50 per 100, $22.00 per 1000.

Swanley White and Single Blue. Plants at $2.25 per 100. Ready now. Cash with order.

ADDRESS **M. TRITSCHLER,** NASHVILLE, TENN.

E. G. HILL & CO.,

Wholesale Florists

RICHMOND, INDIANA.

Pteris tremula.

Three Thousand strong plants, in 2-inch pots, at $3.00 per hundred.

ART FLORAL CO.,

3911 Cottage Grove Ave., CHICAGO.

P. SEBIRE & SONS,

Nurserymen, USSY, Calvados, FRANCE.

A general assortment of **Fruit Tree Stocks,** such as Apple, Pear, Myrobolan Plum, Mahaleb and Mazzard Cherry, Angers Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, etc. The largest stock in the country. Prices very low. Packing secured. Catalogue free. Send for quotations before placing your order elsewhere. Agents for U. S. America and Canada.

C. C. ABEL & CO., P. O. Box 920, New York.

The Grand
CHRYSANTHEMUM AND FLOWER SHOW
AND
KINDRED TRADES EXPOSITION,

Under the Auspices of

The New York Florists' Club,

Will be held at the

GRAND CENTRAL PALACE, IN THE N. Y. Industrial Building,

43rd & 44th Streets, Lexington Avenue and Grand Central Depot,

NOVEMBER 6 TO 12 INCLUSIVE.

$6,500 In Premiums. $6,500

AND NUMEROUS SPECIAL PRIZES TO BE AWARDED.

For schedule and full particulars apply to

JOHN YOUNG, Sec'y, 53 West 30th Street, NEW YORK CITY.

or to **HENRY McCROWE, Mgr., N. Y. Industrial Building, NEW YORK CITY.**

ASPARAGUS PLUMOSUS NANUS, good plants, from 4-inch pots $20 per 100

ASPIDISTRA, variegated. A few fine plants, 5 and 6-inch pots $4 per dozen

CLIVIA, from fine new European varieties, young plants, 4-inch pots $2 per dozen

EUCHARIS GRANDIFLORA, bulbs 5 to 6 in. circ., with healthy leaves. $3 per dozen

EULALIA UNIVITTATA $2 per 100; $15 per 1000

ARUNDO DONAX, variegated, strong roots, $2 per dozen. $15 per 100

IRIS GERMANICA, a fine pure white sort, perfectly hardy $10 per 100

PAEONIES, double white and double pink, two of the best, mixed $12 per 100

Any of the above will be sent on receipt of price with order.

ALEX. SCOTT,
Balto. Co., Lauraville, Md.

500,000 PANSIES

The Jennings Strain of large flowering and Fancy Pansies can be had in any quantity wanted up to Jan. 1st. They are the leading strain to-day, more being sold than any other in the market. Plants are field-grown and are very fine and stocky. Large, medium or small, one price 60 cts. 100 by mail; by express 1000 $5, 5000 $20, 10,000 $35, and plenty of extra plants gratis to help pay express. Yellow and white in separate colors if desired, same price. Florists try this strain of pansies. There is money in it. Only small plants by mail.

PANSY SEED—Pure white, yellow, or mixed, $1.00 per packet of 2500 seeds.

4,000 fine. field-grown CARNATIONS, sold cheap to clean out. Send for prices.

ADDRESS **E. B. JENNINGS,**
WHOLESALE PANSY GROWER,
Lock box 254. SOUTHPORT, CONN.

BARGAINS IN SURPLUS STOCK
SMILAX, CARNATIONS.

For lack of room we will sell one lot 500 Carnations Hinze's White, L. McGowan, Alegatiere, and Crimson King, strong, healthy, field grown plants—no "culls"; $20.00 takes the lot.

One lot 3,000 strong Smilax plants (May sowing), once transplanted, from flats, each wrapped in paper before shipment; $18.00 for the lot. Going! Going! Going!

R. KILBOURN, Sr., Clinton, N. Y.

Supplies of all kinds, such as Bouquet Papers, Baskets, Pot Holders and Stands, Fern Dishes, Metal Memorial Designs, Wire Frames, Funeral Sheaves, Cape Flowers, Immortelles, etc , etc.; also

Cycas Leaves (Sago Palms), natural prepared, equal to fresh cut in appearance, from 28-in. upwards, at 40c., 45c., 50c., 60c., 75c. and $1.00 each, according to length; and many other items of interest to Florists contained in our beautiful and richly illustrated new Trade List just out, mailed free. Address

August Rölker & Sons,
136 & 138 W. 24th St., New York.
P. O. Station E.

PALMS.

150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

Address **GEORGE WITTBOLD,**
1708 N. Halsted St., CHICAGO.

Association "Flora"
BOSKOOP, HOLLAND
NURSERIES.

Roses, Clematis, Shrubs, Azaleas, Palms, Herbaceous Plants, Bulbs, Etc.

Catalogue on Application.

P. OUWERKERK,
206 Cambridge Ave., JERSEY CITY, N. J.

Medal Awarded

at World's Columbian Exposition to

ERNST KAUFMANN & CO.,
113 N. 4th St., Philadelphia, Pa.

FOR

METALLIC DESIGNS, WHEAT SHEAVES, CELLULOID BASKETS AND POT COVERS, and all Florists' Supplies

H. BAYERSDORFER & CO.,
WHOLESALE
FLORISTS' SUPPLIES ONLY,
50 N. 4th Street,
PHILADELPHIA, PA.

Our new Catalogue is now out, free upon application.

MARSCHUETZ & CO.,
Florists' Supplies,

23 & 25 N. 4th St., PHILADELPHIA, PA.

Send for Catalogue.

HUNTINGTON SEED CO.
Florists' : Supplies,
66 E. WASHINGTON ST., INDIANAPOLIS, IND.

Standard Flower Pots, Dried Grasses, Fancy Baskets, Metal Designs. Trade Catalogue mailed free.

Mention the American Florist when writing to advertisers on this page.

Suggestion for Telegraphic Code.

Below you will find a simple yet concise and expedient code which purchasers of cut flowers may appreciate and perhaps adopt:

25 white carnations—Hope.
25 red carnations—Faith.
25 pink carnations—Grace.
Long stem—full.
Short stem—less.
50—ly.
25—ness.

It will be seen that the annexes ly or ness add each their respective number to the original 25 of the first word, thus: If 50 short stemmed red carnations are wanted the word would be "Faithlessness." If 75 long pink, the word would be "Gracefully." If, however, 100 or more are wanted, put the one before the kind in the usual manner, thereby annulling the original 25. If then 150 short white were wanted, the words would be "One hopelessly." K.

To Combat Grasshoppers.

It is too late to help Mr. Rudd this season but he will find the following a sure cure for grasshoppers: 6 pounds bran, 1 pound common arsenic, 1 pound powdered sugar, with water enough to make a mash. The grasshoppers will take it in preference to chrysanthemums, and it is warranted incidentally to kill any domestic animal that eats it, as well as rabbits, gophers, etc. Drop the poison on the ground in small bits. This remedy is from the *Rural New Yorker*, and it works.

Arsenic is worth about 10 or 15 cents a pound and the amount mentioned is enough for two acres or more of land. It is cheap and effective and the only fault I find with it is its liability to kill birds and animals as well as the grasshoppers.

Milwaukee. CHAS. L. MANN.

BOSTON FLORIST LETTER CO.,
13 Green Street, BOSTON, MASS.
Address all correspondence to 1 Music Hall Place.
Manufacture THE BEST LETTERS IN THE MARKET.
Sizes 1½-inch and 2-inch, $2.00 per 100. Patent fastener with each letter.
With orders for 500 letters we give away a nicely stained and varnished box. See cut in next week's American Florist.
Our letter is handled by all the wholesalers in Boston.
AGENTS: Marschuetz & Co., 25 N. 4th St., Philadelphia, Pa.; A. Rolker & Sons, New York; F. E. McAllister, 22 Dey St., N. Y.; Ernst Knufmann & Co., 113 N. 4th St., Philadelphia, Pa.; H. Bayersdorfer & Co., Philadelphia, Pa.; A. D. Perry & Co., 33 Warren St., Syracuse, N. Y.; A. C. Kendal, 115 Ontario St., Cleveland, O.; E. H. Hunt, 79 Lake St., Chicago; Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.; H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.; T. W. Wood & Sons, 6th and Marshall Sts., Richmond, Va.; Jas. Vick's Sons, Rochester, N. Y.; Dan'l B. Long, Buffalo, N. Y.; C. A. Kuehn, St. Louis, Mo.; C. F. Huntington & Co., Indianapolis, Ind; Z. De Forest Ely & Co., 1024 Market St., Philadelphia, Pa; Portland Seed Co., 171 2nd St., Portland, Oregon.
J. A. Simmers, Toronto, Ont., Agent for Canada.

WARNING.
A party in Williamsport, Pa., named Chas. E. Montgomery, is ranking and offering for sale letters which are an infringement upon our patent, and are also much inferior to those manufactured by us. We have notified them of suit unless they desist at once. Buy no letters except through our authorized agents.
BOSTON FLORIST LETTER CO.,
1 Music Hall Place, Boston, Mass.

Ice Boxes
Made specially FOR FLORISTS.
Outside casings, ash, panelled ends, antique finish, walls lined with nonconducting material.
WITH GLASS FRONTS.
Two sizes carried in stock. For circular and prices address
JOHN P. TONNER,
In Cut Flower Exchange, 45 Lake St., CHICAGO.

CAN SHIP AT ONCE!
HOT-BED SASH.
3 feet by 6 feet 1¾ inches thick, for three rows 10-inch glass, *$12.00 per dozen,* f. o. b. Lockland.
These sash are made of **Clear Cypress,** and warranted first-class in every way; are made up, but not painted or glazed.
LOCKLAND LUMBER CO., Lockland, O.

DOES IT PAY?
to wait till the last moment.
NO! Then order your
Bouquet Green, Cut Ferns, Sphagnum Moss, Xmas Trees, Holly, Festooning, and Xmas Green of all kinds. ▲ ▲ ▲ ▲
And do it early. Write for prices—low as the lowest. A 1 goods, and the only place in the WORLD where you can ALWAYS get them.
H. E. HARTFORD, 18 Chapman Place, BOSTON.


FANCY.

DAGGER.
EVERGREEN CUT FERNS
ESPECIALLY FOR FLORISTS' USE.
$1.25 per Thousand Ferns.

IN LOTS OF 5,000 AND UPWARDS, $1.00 PER 1000. Ferns furnished the year round. Special attention given to supplying the Wholesale Trade.
BOUQUET GREEN For Holiday Trade, $2.00 per barrel (thirty pounds); or $6.00 per hundred pounds. Special reduction in express rates.
SPHAGNUM MOSS a specialty. Long, clean fibre, dry or green, $1 per barrel, or six bbls. for $5. Write for terms on large lots. Terms cash, or goods will be sent C. O. D.
CHRISTMAS TREES. American White Spruce, much better shape and color than the Blue Spruce, also Balsam Fir from 3 to 30 feet high. Special attention to supplying carload lots. Write for price list and terms.
L. B. BRAGUE, Hinsdale, Mass.
City Stand During the Holidays: 47th St and Lexington Ave., NEW YORK.


W. C. KRICK'S
PATENT
Florists' Letters, Etc.
Highest Award wherever exhibited.
These Letters are made of the best immortelles, wired on wood or metal frames having holes drilled in them to insert toothpicks, by which to fasten them in the design. All infringements prosecuted.
2-inch Letters, $3 00 per 100.
Postage, 15c. per 100.
Before purchasing send for free sample and Catalogue and compare with any other letter in the market.
W. C. KRICK, 1287 Broadway, BROOKLYN, N. Y.
Agents:—J. C. VAUGHAN, Chicago, Ill.; H. BAYERSDORFER & Co., Phila., Pa.; N. STEFFENS, N. Y.; AUG. ROLKER & SONS, N. Y.; ED. S. SCHMID, Washington, D. C.; JAMES VICK'S SONS, Rochester N. Y.; T. W. WOOD & SONS, Richmond, Va.; J. A. SIMMERS, Toronto, Ont.
Mention American Florist.



Mention American Florist.

CUTS!

WOOD ENGRAVING,
PHOTO-ENGRAVING,
WAX ENGRAVING,
ZINC ETCHING,
HALF-TONE,
DESIGNING.
MANZ & CO.,
183 Monroe Street, CHICAGO. ENGRAVERS.

You Need a Copy
— OF OUR —
Trade Directory
AND
REFERENCE BOOK
if you do not already have one. We will send you one together with our Supplement for 1893 **for $2.00.**
AMERICAN FLORIST CO.,
P. O. Drawer 164. CHICAGO.

LITTLE'S ANTIPEST.

— A —

Valuable Discovery of the 19th Century.

SILVER MEDAL AWARDED

— BY THE —

CALIFORNIA STATE FAIR OF 1890.

This preparation Is a sure destroyer ot the **Scale, Wooly Aphis** and **Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure** and **Cheap.** No fruit grower or florist should be without it.

Send for Circulars and Price List.

R. W. CARMAN, General Agent,
291 AMITY STREET,
FLUSHING, Queens, Co., N. Y.

Increase Your Business

by fostering an interest in plants and flowers among the people in your vicinity. You can best do this by getting subscribers to

GARDENING . . .

which tells people how to get the most satisfaction out of their gardens, and st mulates them to enlarge and extend their gardening operations.

$1.00 A YEAR is the subscription price of this paper, which is issued twice a month, is handsomely and truthfully illustrated, is thoroughly practical, absolutely free from wind and gush and grinds no axes for anyone.

SPECIAL LOW RATE to florists who will act as agents. We want an agent in every city and town in America. Write for terms now to

THE GARDENING CO.
Monon Building, CHICAGO.

THE CHAMPION Automatic Ventilator.

The cheapest, easiest to operate, and by far the best machine in the market. Don't buy a Ventilator until you have seen my illustrated descriptive circular, which will be sent you free, giving prices, etc. Also **Champion Soil Pulverizer and Sifter.**

Address, **E. E. WOLF,**
Box 114. SPRINGFIELD, O.

THE PERFECT DRAINAGE

BENCH TILE

For circulars, etc., address

W. P. Wight, Upland Green Houses,
Send your business card. MADISON, N. J.

CATALOGUE PRINTING. ELECTROTYPING.

Done with expert ability for Florists, Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.
. . . HARRISBURG, PA.

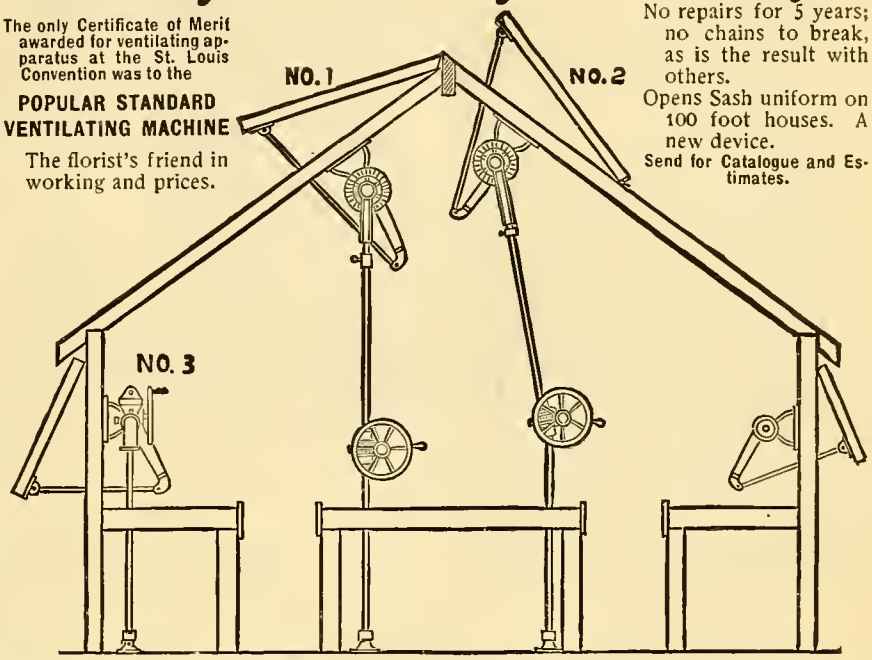
GLASS. ROCK BOTTOM PRICES. Send for Estimate. Satisfaction Guaranteed.
REED GLASS CO.,
65 Warren St., and 46, 48 & 50 College Place,
New York City.

Victory! Victory! Victory!

The only Certificate of Merit awarded for ventilating apparatus at the St. Louis Convention was to the

POPULAR STANDARD VENTILATING MACHINE

The florist's friend in working and prices.



No repairs for 5 years; no chains to break, as is the result with others.

Opens Sash uniform on 100 foot houses. A new device.

Send for Catalogue and Estimates.

E. HIPPARD, YOUNGSTOWN, OHIO.

'God helps those who help themselves." And he who uses THE "NEW DEPARTURE"



VENTILATING APPLIANCE

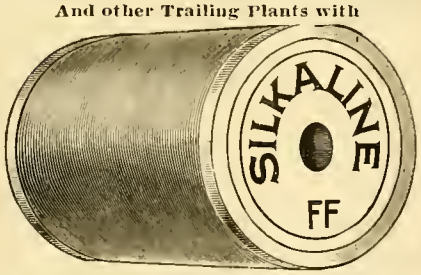
helps himself and those who help him in his labors, and is therefore doubly blessed. Send for price and description.

J. D. CARMODY, Evansville, Ind.

Or call and see the man and machine at his greenhouse office, located on the lawn west front of Horticultural Building, World's Fair grounds, Chicago, Ill.

STRING SMILAX

And other Trailing Plants with



JOHN C. MEYER & CO.,
289 Devonshire St., BOSTON, MASS.
For sale by all leading Florists' Supply Houses.

J. N. STRUCK & BRO.

Manufacturers of

• CYPRESS • Greenhouse Material,

LOUISVILLE, KY.



SCOLLAY'S

IMPROVED

PUTTY BULB,

For Glazing Sash, Etc.

— ALSO THE —

Patent Plant Sprinkler

For sale by your Seedsman, or sent, postpaid, for $1.00.

JOHN A. SCOLLAY,
74 & 76 Myrtle Ave.,
BROOKLYN, N. Y.

Send Stamp for Catalogue.

EVANS' IMPROVED

CHALLENGE VENTILATING APPARATUS

Write for Illustrated Catalogue.

QUAKER CITY MACHINE WORKS, Richmond, Ind.

Send orders for . . .

CLEAR CYPRESS

Greenhouse Material

from bottom of gutter up.

Correspondence solicited. Estimates cheerfully furnished.

LYMAN FELHEIM, ERIE, PA.

Cause of Black Spot.

A correspondent sends us a communication advancing several facts noted by him in support of his opinion that black spot is caused by mulching the rose beds and that "mulching will have to be abandoned for those that are subject to spot." As black spot has not been at all particular to confine itself to roses in mulched beds in the past his theory seems to be based on a very fragile foundation.

Referring to the matter a well known rose grower says. "With a heavy mulching it is very easy to over or underwater and anything which checks or enfeebles the plants, especially "wet feet" or a damp cold night atmosphere, will produce spot on the hybrid teas. There is nothing about a mulch of proper material applied to a bed of vigorous roses when the soil is well filled with roots to do anything except stimulate growth only as it makes it more difficult to water properly. As to the plants working up into the mulch of course the roots will go to the manure. If it were possible to put the manure under instead of on top of the soil the roots would go down instead of up and still there would be no check."

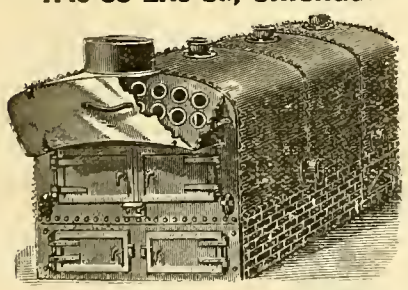
Catalogues Received.

Wm. Parry, Parry, N. J., nursery stock; Wm. H. Spooner, Jamaica Plain, Mass., roses; C. L. Brunson & Co., Paducah, Ky., cut flowers and plants; V. Lemoine et fils, Nancy, France, plant novelties.

"Drecaina Judavissi."

We have often noted curious and wonderful misspelling of plant names in advertisements sent us, but the above, which we finally interpreted as Dracæna indivisa, seems truly remarkable.

KROESCHELL BROS.
IMPROVED
Greenhouse & Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around front, sides and back). Write for information

STANDARD FLOWER POTS.
Price List.

2 -inch,	Per 1000 $3.25	7-inch,	Per 100 $ 3.50
2¼-inch,	" 3.50	8-inch,	" 5.00
2½-inch,	" 4.00	9-inch,	" 7.50
3 -inch,	" 5.00	10-inch,	" 10.00
3½-inch,	" 7.25	11-inch,	" 15 00
4 -inch,	" 9.00	12-inch,	" 20.00
5 -inch,	" 13.80	14-inch,	" 40.00
6 -inch,	" 22.00	16-inch,	" 75.00

Terms cash, f. o. b. Address
HILFINGER BROS. POTTERY, Fort Edward, N. Y.
August Rolker & Sons, 136 & 138 W. 24th St., New York City, Agents for New York and vicinity.

TRADE MARKS. COPYRIGHTS.

SOLICITOR OF U. S. AND FOREIGN PATENTS,
Atlantic Building, Washington, D. C.
(Send sketch or model for free examination as to patentability.



Mention American Florist.

THE "LOCKLAND" Sash Bars
ARE ALWAYS SATISFACTORY.
This cut represents our improved Clipper Bar for Butted Glass roof—putty to be used under glass only.
GUTTER MATERIAL, RIDGES, SASH, ETC.
The finest CLEAR CYPRESS used.
Write for circulars and estimates. . . .
LOCKLAND LUMBER CO.
. Lockland, O.

"Standard" Flower Pots.
As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address
The Whildin Pottery Company,
BRANCH WAREHOUSES: 713, 715, 717 & 719 Wharton St., Philadelphia, Pa.
Randolph Ave. and Union St., Jersey City, N. J.
Jackson Ave. and Pearson St., Long Island City, L. I.

STANDARD FLOWER POTS
Every u er of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.
A. H. HEWS & CO., N. Cambridge, Mass.

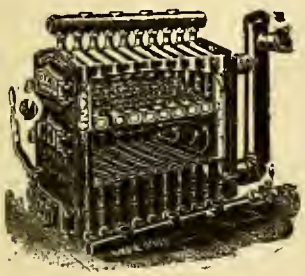
Announcement to Florists.
We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.
Send for price list and samples and we know you will give us an order.
SYRACUSE POTTERY CO. OFFICE: 403 North Salina Street, SYRACUSE, N. Y.

STANDARD FLOWER POTS.
OLD RELIABLE MAKE OF
ELVERSON, SHERWOOD & BARKER.
Write for Catalogue and Price List.
PITTSBURGH CLAY MFG. CO. New Brighton, Pa.

STANDARD FLOWER POTS
Our new **Pottery,** new **Machinery,** the very **best Clay** in the **Country,** and our new **Patent Kilns,** all combined, make the **best Standard Pot in the market.** Send for price list.
PARMENTER MF'G COMPANY,
GEORGE MESSINGER, Manager. East Brookfield, Mass.

D. C. SCHOFIELD & CO.,
New Brighton, Pa.,
are in their new factory, manufacturing, this month, six times as many "STANDARD" FLOWER POTS as they made last season, in a month.
☞ WRITE FOR PRICES.

ROYAL HEATERS
TRADE MARK
UTICA, N.Y.



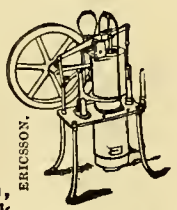
HOT WATER, STEAM.

The right kind of Boilers for Greenhouses.

HART & CROUSE,

UTICA, N. Y.

WATER
For Your
GREEN HOUSE,
ROSE HOUSE,
NURSERY,
Conservatory, Lawn, House, Garden, Stock or any other purpose.
Send for Illustrated Catalogue
OF THE
DE LAMATER-RIDER AND DE LAMATER-ERICSSON
PUMPING ENGINE.



HOT-AIR PUMPING ENGINE.

Their operation is so simple and safe that a child can run them. They will pump water from shallow streams or any kind of well. They can be arranged for any kind of fuel. Capacity 1,500 to 30,000 gallons of water a day, according to size.

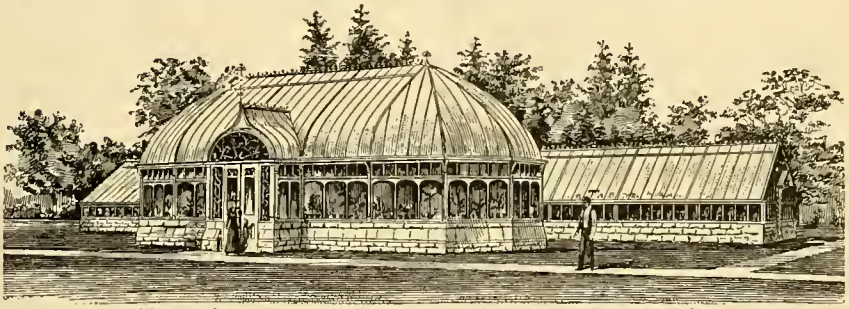


The De Lamater Iron Works,
87 South Fifth Avenue,
NEW YORK, N. Y.

YOU CAN SAVE MONEY BY PURCHASING, AND GLASS BY USING
Hamilton's Patent Sash Lifter.
The best thing of the kind ever invented for greenhouse use. Send for description and price list.
BAY STATE HARDWARE CO.,
272 Freeport Street, BOSTON, MASS.

LORD & BURNHAM CO.

Horticultural Architects and Builders,
STEAM AND HOT WATER HEATING ENGINEERS.
☞ Plans and estimates furnished on application.



Front view of a portion of our exhibit at the World's Fair.

. . . SEND FOUR CENTS POSTAGE FOR ILLUSTRATED CATALOGUE. . . .

LORD & BURNHAM CO., Irvington-on-Hudson, N. Y.

STEAM • AND • HOT • WATER • HEATERS

FOR
GREENHOUSE HEATING
156
DIFFERENT SIZES.
American Boiler Company.

BOSTON, 195 Ft. Hill Square. NEW YORK, 94 Center St. CHICAGO, 34-36 Dearborn St. DENVER, Mining Exchange Bldg. SAN FRANCISCO. 80 Crocker Bldg.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO,

NATURAL GAS MADE GLASS

FOR GREENHOUSES.

Write for latest prices.

D. H. ROBERTS,

159 and 161 S. Fifth Avenue, - NEW YORK,

NATURAL GAS MADE GLASS,

FOR ROSE HOUSES, CONSERVATORIES, ETC., ETC.
☞ Look at our WORLD'S FAIR EXHIBIT in Horticultural Building.

FRENCH GLASS For CONSERVATORIES, ROSE HOUSES, Etc. Etc.

VANHORNE, GRIFFEN & CO.,
Importers of PLATE and WINDOW GLASS. Manufacturers of BENT GLASS and FRENCH MIRRORS.
131-133-135-137 FRANKLIN STREET, NEW YORK.
Note—Imported Glass is used in the best grade of Greenhouse building



Pat. 1882, '85, '86, '88, '90, '91.

FOR WATER, AIR, STEAM, ACIDS, OILS, LIQUORS, GAS, SUCTION,
And for any and every purpose for which a hose can be applied.
Sizes, ⅛-inch to 42 inches diameter.
The making, vending or use of any Serviceable Armored Wire Bound Hose not of our manufacture is an infringement on one or more of our Patents. The rights secured to us render each individual dealer or user responsible for such unlawful use with all the consequences thereof. For prices and discounts address WATERBURY RUBBER CO., Sole Mf'rs and Owners of all the *Sphincter Grip Armored Hose Patents*, 49 Warren Street, New York
J. C. VAUGHAN, Agent, CHICAGO.

Index to Advertisers.

Abel C C & Co.....270
American Boiler Co....275
Art Floral Co.....270
Baller F A 270
Barnard W W & Co....267
Bay State Hdw Co.....275
Bayersdorfer H & Co..271
Barr B F.....269
Berger H H & Co.....267
Bonsall Jos E & Son...265
Boston Letter Co 272
Brague L B.....272
Brauer & Richter.... 270
Brown & Canfield 269
Bryfogle W C & Bro...268
Burkl Fred.. 268
Burns & Raynor.....265
Burrow J G.....270
Burton John..... 269
Carman R W.....273
Carmody J D..... 273
Catlin M R Co.....266
Chandlee Geo H.....274
Corbrey T J.....264
Creighton Geo.....270
Deamud J B & Co.....264
De Lamater Iron Wks.275
De Witt P M..... . 269
Dillon J L.....268
Dreer H A.....268 269
Elliott W H.....264
Ellison Wm.....265
Ely Z De Forest & Co..267
Felheim Lyman.....273
Forstermann I. 270
Gardening Co The.....273
Gibson J C.....269
Goodyear Rubber Store 276
Griffith N S..... 268
Gurney Heater Co.....276
Hall Ass'n.....264
Hancock Geo 268
Hart James.....265
Hart Michael A.....265
Hart & Crouse.....275
Hartford H E.....272
Herr Albert M.....270
Hews A H & Co.....274
Hilfinger Bros.....274
Hill E G & Co.....270
Hippard E.....273
Hitchings & Co.....276
Hooker H M Co 275
Horan Edw C. 265
Hulsebosch Bros.....267
Hunt E H..... 265
Hunt M A..... 269 270
Hunter Frank D.....265
Huntington Seed Co...271
Jennings E B.....271
Joosten C H.....267
Jordan Floral Co.....269
Kaufmann Ernst & Co.271
Kennicott Bros.....265
Kift Joseph..... 269
Kilbourn R Sr 271
Krick W C.....272
Kroeschell Bros 274
Kuehn C A..... 264
Lake Geneva Floral Co269
Larkin Isaac.....268
La Roche & Stahl.....264
Lockland Lumber Co... 272 274
Long Dan'l B.....265
Lonsdale Edwin.....268
Lord & Burnham Co...275
McCarthy N F & Co....265
McFarland J H.....264
McFarland J H Co.....273
Manz J & Co.....272
Marschuetz & Co.....271
Memphis Floral Co....269
Meyer John C & Co 273
Michel Plant & Bulb Co 268
Millang Bros.....265
Moffatt G J.....267
Moninger Jno C 276
Murray S.....266
New York Florist Club.271
Niles Centre Floral Co.265
Ouwerkerk P.....271
Parmenter Mfg Co.....274
Peck & Sutherland.....265
Pennock C J.....268
Pennock Sam'l S.....270
Pierson F R Co..... 264
Pittsburg Clay Mfg Co.274
Quaker City Mach Co..273
Randall A L 265
Reck John 270
Reed Glass Co.....273
Reed & Keller.... 272
Roberts J H.....275
Roehrs Theo..... 265
Rolker A & Sons....267 271
Sander & Co 270
Schofield D C & Co.....274
Scollay John A. 273
Scott Alex.....271
Sebire P & Sons 270
Sheridan W F. 265
Sherwood Hall Nur Co.269
Siebrecht & Wadley....270
Situations. wants.....266
Smith Nathan & Son...268
Spooner Wm H. 269
Streby S O 270
Struck J N & Bro.....273
Sunderbruch H L..264 265
Swayne Edward.....268
Syracuse Pottery Co...274
Taplin S.....268
Tonner John P.....270 272
Tricker Wm..... ..270
Tritschler M.....270
Van Horne Griffen & Co 275
Vaughan J C.. 267
Waterbury Rubber Co.275
Watson G C.....267
Weathered's Sons T W.276
Weeber & Don.....267
Welch Bros.....265
Whilldin Pot Co 274
White John.... 266
Whitehead Geo B.....268
Wight W P.... 273
Wisconsin Flower Ex..264
Wittbold Geo.ge.....271
Wolf E E 273
Wood Bros.....269
Young John.....265
Young Thos Jr.....264

YOU CAN never invest $2 to better advantage than in a copy of our trade directory and reference book.

Please mention the AMERICAN FLORIST every time you write to an advertiser.

CYPRESS GREEN HOUSE MATERIAL

CLEAR CYPRESS SASH BARS

HOT BED AND VENTILATING SASH

JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

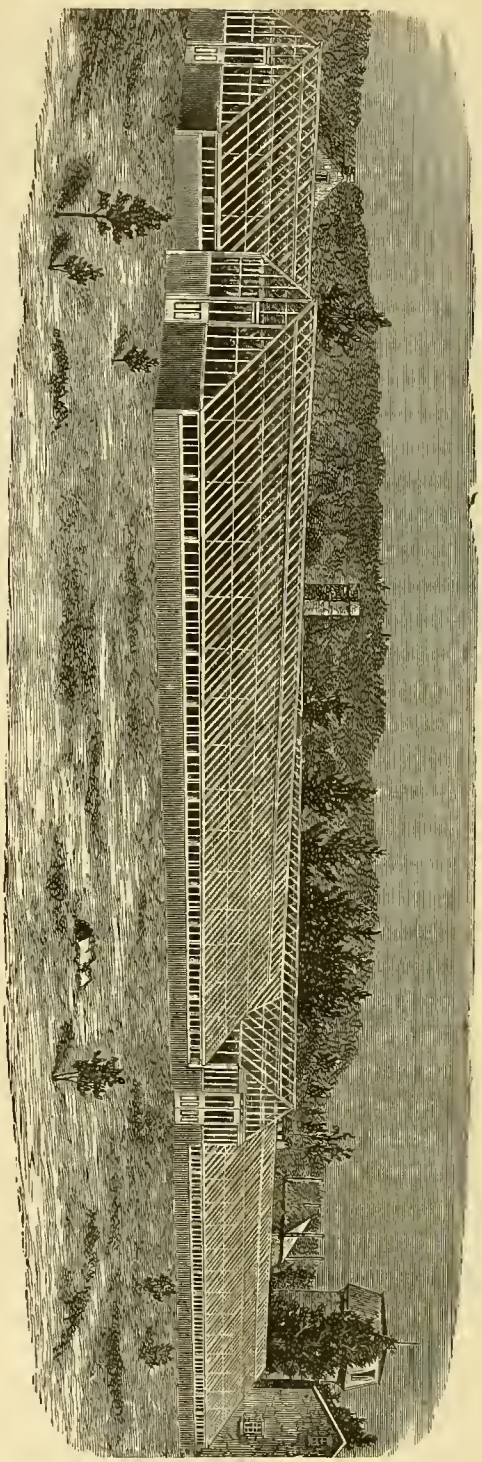
Goodell Hll
Mass Agri Col
15 Dec 93

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

HITCHINGS & CO.

ESTABLISHED 1844.

GREENHOUSE HEATING AND VENTILATING,
HORTICULTURAL ARCHITECTURE AND BUILDING.



COMMERCIAL ROSE AND GREENHOUSES, CONSERVATORIES, PALM HOUSES, ETC., CONSTRUCTED WITH POSTS, RAFTERS, PURLINS, GUTTERS, SILLS, COLUMNS AND BRACKETS, ALL OF IRON; AND GLAZING BARS, VENTILATING SASH AND SIDING OF WOOD. ERECTED COMPLETE, OR THE STRUCTURAL IRON WORK SHIPPED READY FOR ERECTION WITH PLANS, DETAILS AND FULL INSTRUCTIONS TO ENABLE LOCAL MECHANICS TO COMPLETE THE SAME.

SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUES.

—— IRON BENCH FRAMES FOR SLATE OR WOOD TOPS. ——

HITCHINGS & CO., 233 Mercer Street, NEW YORK.

THOS. W. WEATHERED'S SONS,

INCORPORATED.

Horticultural Architects and Hot Water Engineers

Send for Catalogue, enclosing 4 cents in stamps.

No. 244 Canal St., NEW YORK CITY.

FLORISTS' HOSE,

Made by E. W. Holt, member of the Society of American Florists.

Goodyear Rubber Store,

2 W. 14TH ST. NEW YORK.

Always mention the AMERICAN FLORIST when writing to advertisers.

GURNEY Hot-Water Heaters FOR Greenhouses.

Send for a copy of our book "How best to heat our houses."

GURNEY HOT-WATER HEATER CO.

163 FRANKLIN ST., BOSTON.

Branch Office: 59 Wabash Avenue, Chicago, Illinois. Selling Agencies: Johnson & Co., 71 John St., New York City. J. C. F. Trachsel, 246 Arch St., Philadelphia

Always mention the American Florist when writing to advertisers.

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. IX. *CHICAGO AND NEW YORK, NOVEMBER 2, 1893.* *No. 283*

THE AMERICAN FLORIST

Copyright 1893, by American Florist Company. Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.
322 Dearborn Street, Chicago.

Subscription, $1.00 a year. To Europe, $2.00.

Address all communications to

AMERICAN FLORIST COMPANY,
P. O. Drawer 164, CHICAGO.
Eastern Office: 67 Bromfield St., Boston.

SOCIETY OF AMERICAN FLORISTS.

WM. R. SMITH, Washington, D. C., president; PROF. WM. TRELEASE, St. Louis, Mo., vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass, secretary; M. A. HUNT, Terre Haute, Ind., treasurer.

The new officers, to be installed Jan. 1, 1894, are: J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; secretary and treasurer the same as for 1893. The next annual meeting will be held at Atlantic City, N. J., August, 1894.

CONTENTS.

Miscellaneous seasonable hints. 277
Azaleas 277
Carnations—Carnation notes 278
—Carnations at Kennett Square, Pa. 278
Caladiums and gloxinias at World's Fair (illus) 279
Boston 279
New York 280
Philadelphia 280
Orchids and ferns at World's Fair (illus). . . . 281
Chicago 281
Buffalo 282
St. Paul, Minn. 282
Floral decorations 282
Hardy asters (illus) 283
Random Chicago notes 283
Chrysanthemum notes 283
The seed trade 284
Funeral flowers for Chicago's mayor. 284
Chrysanthemum shows 286
Toronto 288
The World's Fair 292
The Toronto show 294

A MOISTURE TENT for house plants is an excellent idea suggested by Julius Koenig of St. Louis. It is a noticeable fact that most plants used for room embellishment suffer greatly from the dry atmosphere, and sprinkling does not help this much. This difficulty is gotten over, however, by keeping them in a moist atmosphere at night. For this purpose a bell-shaped tent is made of heavy canton flannel, large enough to cover the plants to be so treated. A frame of wood or wire is made to support it. Every night the tent is dipped into water, slightly wrung out, and placed over the plants. If it dries out very rapidly it may be sprinkled again. Mr. Koenig tells us he knows a case where Adiantum trapeziforme and other ferns, as well as a variety of palms, were kept in perfect health as house plants under this treatment. It seems a valuable little wrinkle for some of the retail florists, for their own benefit as well as for their customers, for where there is no greenhouse hospital for store plants they soon suffer if there is not some refuge from the dry atmosphere prevailing in a store.

Miscellaneous Seasonable Hints.

Your palms will now be brought into active service for decorations of various kinds, and as severe winter weather will soon be here it will be impossible to continually tie and box these plants, expose them to a low temperature and occationally a gas jet, without their showing the effects of such rough treatment, and they are bound to get a flaw here and there, not enough to render them any the less valuable for decorating, but imperfect enough to spoil their sale to any one who wants to purchase a nice palm for his house. The only way to keep some perfect palms for sale is to make a dividing line in your palm house, and keep your perfect young palms at the warm end, and don't let them attend any weddings, receptions, etc. under any circumstances whatever. Stick to this rule and you will always have some perfect plants.

Easter is very early this year, and where sweet peas are sown to succeed chrysanthemums it will be hard work to get the peas in flower by Easter. If they are midseason or late chrysanthemums it will be a month yet before you can get the sweet peas sown. If the latter are of much consequence to you sow some in 4-inch pots. You can get a start of six weeks in this way, and their earliness will repay the extra trouble.

If you have not already lifted your Hydrangea Otaksa from the ground or frame they have been growing in all summer do so at once, a little frost has not hurt them. It helps to ripen the wood, but hard freezing will hurt the buds. Hydrangeas are tremendous feeders, and soon fill the pots with roots, so give them good sized pots with a coarse mixture of soil and a fourth of rotten cow manure. We can't all afford a bench for them in a very cool house, but they will do very well stood along the edge of the path in a cool light house. They are not making any growth for two months, and the absence of light won't hurt them till they begin to grow.

Cytisus is usually a little early for Easter if kept in a house with an ordinary greenhouse temperature. Keep them with your Easter azaleas, as cool as possible without freezing.

It is time now to start up the old stock fuchsias to give you cuttings. The wood should be ripened now if they have been kept almost dry for the past six weeks. Shake the old soil clean off them, shorten back the slender tips of the shoots, and start them going in a moderately warm house and with plenty of syringing. It is the early struck cuttings that make the really fine plants, because they show no inclination to flower till spring time, when they should be fine plants. By the time the last batch of cuttings is taken off the old plants want to flower, and the cuttings then are too precocious, wanting to flower when only a few inches high. The old fashioned way of growing a fuchsia to single lead or pyramid form made handsome plants, but not as useful or as salable to the commercial florist as one that has been stopped twice and has five or six leaders. These want little tying and make fine bushy plants.

When Spiræa Japonica (astilbe) arrives don't pot it till you have given the clumps a good soaking in a tub of water. Last year I saw several lots that were a partial failure, and I believe the neglect of this simple operation was the only cause. I like to put them out of doors after potting, and cover with an inch or two of litter of some sort, and leave them there till forcing time comes. This year it should be soon after New Years.

Don't let greenfly get a foothold on your early Harrisii lilies, nor on the poinsettias, which are now beginning to develop their bracts. They quickly ruin the latter, and if once down in the heart of a lily are hard to get rid of. Constant and light fumigating must be the rule.

Buffalo, October 30. WM. SCOTT.

Azaleas.

Probably a much greater number of azaleas are imported from Europe each season than are raised here, and the treatment of newly imported stock was very aptly described by Mr. Scott in his interesting notes in a recent issue of the FLORIST, but it should also be remembered that these plants can be successfully cultivated in this country, though this branch of the business has been neglected by many growers from the fact that other specialties have promised larger returns. The imported plants are very well grown in most instances, and are now reasonably cheap, and do not occupy space for any great length of time before becoming salable, but there seems to be but little doubt that home grown stock could also be produced at moderate cost and in good quality if its cultivation was entered upon in the same systematic manner that has been adopted for various other crops.

The propagation of azaleas is not specially difficult, either by means of cuttings or grafting, the first essentials being good clean cuttings of young wood, or very similar soft young growths for grafts. The best cuttings are formed from young shoots two to three inches long and taken off with a heel of firmer wood attached, these being planted in 6-inch pots in such quantity as not to crowd the cuttings too much. The cutting pots should be filled with light soil, preferably of a peaty nature, and with a layer of clean sand on the top, the whole being made very firm and well watered before the cuttings are inserted therein. They should then be placed in a propagating frame and well shaded, keeping

the frame close during the day in bright weather, but giving enough ventilation at night to prevent any excess of moisture. Under proper conditions the cuttings will be rooted in from three to six weeks, and should then be potted off at once into small pots, and as soon as the new roots get into action should be given plenty of light and air and syringed frequently to avoid the attacks of thrips. After this the young plants should be potted on as they require it, and also be pinched into shape, as they would otherwise become too straggling.

The grafted plants may be handled in a very similar manner after the grafts have united, this first step in the process requiring the most care. Healthy, straight stocks for grafting on are the only suitable ones; one of the best varieties to use for this purpose being the old purple variety known as Phœnicia, this being a strong growing and free rooting sort, and forms suitable stocks in a short time. The grafts should be formed of moderately soft young shoots, and of course should be manipulated only with a very sharp knife, for bruised wood does not readily unite, and side grafting makes the neatest job and also a firm union, the graft being secured in place with a close binding of raffia or similar tying material. The grafts should be treated in much the same manner as the cuttings, keeping them quite close for a time and watering carefully. As soon as the union has taken place the bandage should be removed, and after growth begins the plants should be potted on and encouraged to move rapidly, the young shoots being pinched regularly to induce a shapely growth.

If space will permit, it is a good plan to plant out the young plants during the summer, either on a bench in a greenhouse or out in a frame, a slight shading being beneficial, the most suitable arrangement for this purpose being a light framework formed of laths spaced about half an inch apart. In the fall the plants should be lifted and potted up, and can then be stored for the winter in a cool house or a heated pit or frame, a temperature of 45° at night being quite enough to keep them in good condition. At the end of the second year there should be some salable plants among the lot, though naturally much depends on the way in which they have been cared for.

The only serious pests to which azaleas are subject are red spider and thrips, but these may be avoided by occasional fumigatings and regular and frequent syringing, a good pressure of water being very discouraging to either of these vermin.

Regarding soil, it may be stated that good azaleas can be grown in pure loam, providing it is not too clayey, and the roots of these plants being very fine they should always be potted quite firmly, though giving careful attention to the drainage of the pots at all times. But where the loam is of poor quality and very tenacious it is safer to use some peat in the compost, and in some portions of the far west some difficulty may be experienced from the prevalence of alkali in the soil, the latter being more or less injurious to plants of this character.

W. H. TAPLIN.

WHEN SENDING us newspapers containing items you wish us to note please do not fail to distinctly mark the item so it can be easily found, as we can not spare the time to hunt through the mass of papers sent us for unmarked items.



Carnation Notes.

Everything having started off nicely by this time it is well to begin looking around and see what is what. You will observe that the list of varieties I grow is very small, as I have found by experience (some of it costly) that it pays to grow only the best of each color. Having adopted this principle there is not a carnation on the place this season that will not do well and pay, if there is any pay in the business.

Daybreak is the carnation of all carnations; of course the growth is somewhat scrawly, and it seems the natural habitat of the red spider, but when you get two prices for the flowers a few defects can be overlooked. Those on benches are producing side buds, and the terminal bud is very apt to burst, but those in solid beds are producing no side buds and the calyx is perfect.

Lizzie McGowan, Mr. Robert Craig says, is the "bread and butter carnation," and he is about right, for the florist who has it need never starve for want of flowers. Those that are in solid beds are making all long stems without any side buds, and those on benches are full of side buds, making a fine lot of short and enough of long, so the bench seems the place for it.

Silver Spray being very early can be handled so as to fill up the gap before chrysanthemums come in. It makes all long stem flowers, some of them deformed and worthless. These can easily be recognized as soon as they begin to open, and if they are pulled off every time the flowers are pulled you save your plants the labor of producing worthless bloom, and will get plenty of good from them. They do best in solid beds.

Grace Darling is a good one, doing equally well on benches and in solid beds. If it produces side buds pinch them off and give it pretty liberal feeding, with a warm house to grow in.

Aurora is doing well on benches and is very prolific in good large flowers. In solid beds it is comparatively worthless.

Edna Craig in solid beds is sustaining the claims made for it, and they were about all that could be made for a carnation. Annie Pixley is a new one not yet sent out, and gives promise of being a grand variety; next season I shall grow nothing in pink but these two; they are both an exquisite shade, having large flowers with long stems and vigorous growth.

Fred Dorner is with me among scarlets what McGowan is among whites; it is the best scarlet I know of up to date, and were it not for the fact that some growers are not willing to give Portia up for a newer one there would have been none of the latter on the place. Portia is, however, doing very well, the dry summer seemingly having hardened the plants up better than usual, and better flowers are the result.

J. R. Freeman is a very good crimson, but the crimsons do not sell well, and next year there will be none of that color planted here.

As my soil does not seem suited to Buttercup Golden Triumph is grown for yellow and has proven a profitable variety, but I am looking for a better one. To tell the truth I am always looking for a better one, and when I see one it is bought in quantity enough to fill a house or two, and one of the older varieties has to make room for it. A. M. HERR.

Carnations at Kennett Square, Pa.

Kennett Square, Pa., is a town famous alike for its great poet and traveler, Bayard Taylor, and its magnificent carnations. We recently paid a flying visit to this place and found the carnations have all been housed and are now in fine condition. Never was there better promise of a large crop of flowers. Some eight or ten growers ship from this point, and the weekly output through the winter months will not fall much short of thirty to forty thousand blooms. When it is considered that only fifteen years ago Chas. T. Starr, the father of this industry in the so-called "carnation belt," could stall the Philadelphia market with a "bushel of carnations," the wonderful progress made in southern Chester county is really surprising. For even the Kennett Square supply is not more than one fourth of the total number of carnations shipped from this district.

But this section is celebrated not only for its quantity and quality of blooms, but also for its production of new varieties. Buttercup, Century, Golden Gate, Chester Pride, Edwardsii, L. L. Lamborn, Pride of Kennett, Aurora, Grace Darling and a host of lesser lights were sent out from this vicinity. At the present time there are several workers in this field and we may expect some surprises in the near future. The introductions for the present season are not many. In fact the carnation has now reached such perfection that a new seedling must be something very fine indeed if the conscientious grower deems it fit for distribution. There was a time when a good pink was badly wanted. Grace Wilder seemed to be the ideal in color, only it had the bad habit of coming at times streaky, and in other ways failing to behave in a proper manner. But there is little doubt now of the want being supplied. We have Grace Darling, Aurora, Fred Creighton, Grace Battles, Edna Craig, Wm. Scott and finally Sweet Brier and Ophelia. The latter two are offered for sale the first time this year, and seem to be the culmination of a great deal of thought and care on the part of Edward Swayne, the originator. Mr. Swayne has made a special study of hybridizing for the production of a first-class pink carnation, and how well he has succeeded a visit at the present time to his house would testify. Ophelia is a fine flower, often expanding three and one-quarter inches, and borne on stout stems. The plant is robust and productive. In color like Grace Darling, rather darker than Wilder. The house of this variety now in bloom is truly a sight worth seeing. Ophelia took the Craig cup at the Philadelphia show last fall. Sweet Brier is rather lighter in color and of a pure pink, entirely free of the purple streaks so often found in Wilder. It is deliciously fragrant, and borne on very stiff erect stems that are generally free from lateral buds.

Mr. Swayne has made an experiment of great interest to the trade, but certainly not to his own profit. Early in September he potted a number of Sweet Briers from open ground into 4 and 5-inch pots, keeping them out doors and transferring to benches inside later. The



FANCY CALADIUMS AND GLOXINIAS IN PENNSYLVANIA STATE EXHIBIT AT THE WORLD'S FAIR.

plants that were shifted directly into the benches are today looking very fine and blooming freely, while those that were potted are a sorry sight indeed—full of dead leaves and showing no signs of bloom. The experiment is a disappointing one, as one would expect to see a contrary result.

We cannot close this article without calling attention to the superb house of McGowans to be seen at Mr. Swayne's. It is worth traveling many miles to see.

Avondale, Pa. W. R. SHELMIRE.

Boston.

The present demand is entirely inadequate to match the supply of roses, carnations and chrysanthemums which the growers are daily piling on to the market. Looking back over the record of recent years we find that this is not much different from the usual conditions at this particular season, for it has been regularly a period of over production and dull business, not only here but in all the large centers of the cut flower trade. The most disquieting feature this season is the low prices, which in the case of roses and chrysanthemums especially have fallen to an unprecedented level. In fact there is no level, and no such thing apparently as a minimum price, and if the growers of these staples can exist and thrive under present conditions one begins to wonder why with former figures they did not all become princes. Another unpleasant but undeniable fact is that the street fakirs are handling about as good stock as are the regular stores. The goods which they display are no longer the refuse and low grade stock, and this fact alone cannot fail to have an unfavorable effect generally on legitimate trade. But there is consolation in the thought that like other torments of the warm weather they must withdraw from the field as soon as freezing weather sets in.

The chrysanthemum show will open on November 7. Judging from current comment there will be some blooms there the like of which have never been seen. One establishment, of which we may have more to tell next week, is likely to break all records and move the peg up to a notch which will necessitate some tall climbing on the part of future competitors. As to seedlings the prospects are also good, and although the number shown may not be large yet some meritorious ones may be looked for. The prizes offered amount to nearly 1,100 exclusive of specials. Edward Hatch has offered three prizes of $25, $15 and $10 for the best vase of twenty yellow chrysanthemums.

Lawrence Cotter is one of our best chrysanthemum growers. As with a great many others, Ivory is a leading variety with him, and he is cutting large quantities of superb blooms. W. H. Lincoln promises to be equally good. Last year no finer blooms were shown at the chrysanthemum show here than Cotter's Lincolns. Jessica, Mrs. J. N. Gerard and Rohallion are about all cut already, and H. E. Widener, Ada Spaulding, Domination and Viviand-Morel will follow closely on them. On a few plants of Viviand-Morel where crown buds have been allowed to come the blooms are poorly formed and very pale in color. Mrs. Craig Lippencott, the new hairy yellow, is very promising. Harry May and Beacon are not nearly as good as last year, and Golden Wedding is a complete failure. "Not much use commercially" was Mr. Thorpe's verdict on Pelican last year. Mr. Cotter does not agree, he calls it one of the very best. Both Pelican and V. H. Hallock are in splendid shape. A promising sport from Mrs. S. Humphreys has appeared here; the color is an unusually soft shade of lemon yellow.

Speaking of roses Mr. Cotter says that Meteor has been his salvation this year, as nothing else would bring any kind of a price. He is not alone in this experience. As in previous years hybrid roses and longiflorum and Harrisii lilies will take the place of chrysanthemums when these are gone. An interesting experiment is a house of American Beauties treated as hybrids. They have been dried off and the canes tied down, and look as if they

would throw a big cut for Christmas.

S. J. Coleman at J. M. Galvin's place is another grower who has attained a big reputation as a chrysanthemum grower. Among the varieties seen here are many of the new ones, of which The Queen and Niveus are the most satisfactory. Both these varieties are showing up finely. Golden Wedding does poorly and mildews badly. Col. W. B. Smith is excellent, so is Domination, Ivory, Cullingfordii and several of the older favorites. Viviand-Morel has lost its color somehow and is almost white. Mr. Coleman attributes it to the fertilizer used.

Part II of the transactions of the Massachusetts Horticultural Society for the year 1892 is just out. It contains full reports of all the meetings and exhibitions of the year, from April 2, also the annual reports of the chairmen of the various exhibition committees, a list of all the accessions to the library during the year and much other interesting and instructive reading.

The prizes offered by the Boston and Maine R. R. for the best displays of plants and flowers at its stations, for 1893, have been awarded as follows: First prize, $50, Belmont, Mass.; second prize, $40 each, Madbury, N. H., and Portsmouth roundhouse; third prize, $20 each, to Bell Rock, Brattle station, Cliftondale, Cross street, East Lexington Turnpike, Mass., Kennebunk, Me., Atkinson and Greenland, N. H. A number of smaller cash prizes were awarded to other stations. The total prizes awarded amounted to $700.

George A. Sutherland succeeded the firm of Peck & Sutherland November 1.

New York.

The situation remains unchanged in the cut flower trade. Retailers and wholesalers alike agree in pronouncing the present demoralized condition of business as unprecedented. As far as chrysanthemums are concerned there appears to be a contributing cause for the depression, in the very apparent efforts on the part of certain retailers to disseminate among the public the idea that these flowers are no longer fashionable. But the chrysanthemum is not dead yet, even though it be true that the chappies have abandoned its use as a boutonniere for street wear.

The committees in charge of the approaching exhibition at the Grand Central Palace are doing very effective work, and judging from the system which prevails in all their preparations and the great number of entries constantly being received the exhibition will surpass all its predecessors in merit. The children's day, Wednesday, November 8, promises to be very interesting. Already over three hundred entries have been made by the little ones who received young plants last spring through the medium of the Kindergarten Plant Association. The number of special premiums offered is very large, and the list is being increased daily.

Pitcher & Manda's annual chrysanthemum show is now going on. To those who have by constant visits become familiar with the magnificent display of orchids and show plants of every description which is always to be seen at this great establishment the most interesting feature just now is the house of selected seedlings, the best twelve hundred varieties out of over thirty thousand seedlings raised last year. Nothing approaching this show has ever been seen in this country. As the greater part of them is still held under number only a detailed account of the most notable varieties is deferred until such time as they shall be entered in public exhibition under name. One variety, however, which has been already named Pitcher & Manda may be mentioned as one of the grandest introductions in chrysanthemum history. The center of the bloom is deep brilliant yellow. From this outward it shades off gradually to pure white, the white and yellow each covering about one half of the flower, which is very large and well formed. The tuberous begonias in the houses make a magnificent display, almost rivalling the chrysanthemums in attractiveness to the visitors, who have thronged the houses every day since the exhibition opened.

Chrysanthemums at Rudolph Asmus' place in New Durham are worth seeing. Viviand-Morel has never been seen here in better shape than he has it. Mrs. J. G. Whilldin, Mrs. M. J. Thomas, Miss Minnie Wanamaker and Rohallion are also superb. Among the newer ones Emily Hitzeroth, Col. W. B. Smith and Niveus are equally satisfactory. Jos. H. White is a great favorite with Mr. Asmus. Its flowers are very firm, and he regards it as one of the very best keepers.

As soon as the chrysanthemums are off, daisies and carnations take their place. Mr. Asmus has one of the finest houses of Meteor to be seen. This is a house which was piped for forcing bulbs, and hence is well equipped to give the Meteor the high temperature which it requires. Mr. Asmus says that this was the best paying house on the place last year.

Bonn & Dressel are among the few bulb forcers who did not get either frightened or cured by the discouraging results of last year's investments, for they will force more than ever this year. This is the place to see fine dracænas, araucarias, aspidistras, kentias, arecas and other commercial foliage plants. Their stock is clean and handsome. The outside surroundings of the place are a good index of indoor conditions. Well raked walks, tidy borders and handsome groups of rhododendrons and hardy conifers greet you on your approach, and you feel at once that the same habits of tidiness which keep the weeds down outside will outwit the bugs on the inside. Nevertheless, cyclamens, which were formerly a good crop here, are out of the question now, owing to an unmanageable fungus which attacks the foliage.

Nelson & Schupp have opened a new wholesale cut flower establishment at 142 West 31st street.

Mr. E. V. Hallock has severed his connection with the establishment of John Lewis Childs.

Philadelphia.

This is chrysanthemum time, and a great time it is, "mums" are to be seen on every hand, the pot plants now coming in adding not a little to the display.

Ivory is much the best white so far, every one seeming to have them good, although there is quite a difference in the size of the flowers. Some growers are almost cut out of it, while others say theirs is hardly fit to send in. Minnie Wanamaker is making her appearance, the first being cut on the 27th by Scott & & Son and C. E. Evans. Some of Mr. Evans' flowers were the largest we have ever seen of this variety. Robert Craig is cutting some fine flowers of the Queen, a very pure white incurved with large petals, and some fine specimens of Maud Dean, a pretty pink. Edwin Lonsdale has had some magnificent blooms of Mrs Craig Lippencott, they measure from 7 to 9 inches in diameter, with stems 4 feet long. This variety has the call on the yellows, no other can compare with it; it has one fault, however, it lacks substance, not being as solid a flower as Lincoln, Widener or Golden Wedding. It looks now as though it would be cut out by the time these varieties are ready. The smaller stock sold in bunches is now being sent in, Le Neige, Gloriosum, Source d' Or, Elaine, Mrs. M. Davis and Mme. Bergman being the principal kinds.

The price, well there are all prices, the best are now bringing $2 per dozen, then $1.80, $1.50, and very good flowers can be had for $1. A number of growers have sprays with from two to four flowers to a spray, these sell, the best for $1 per dozen sprays, there is then a size for 75 cents a dozen, another at 60 cents, and then the bunches at from 25 to 35 per bunch.

Considering the quantity there is about the sales may be considered good and the demand increasing.

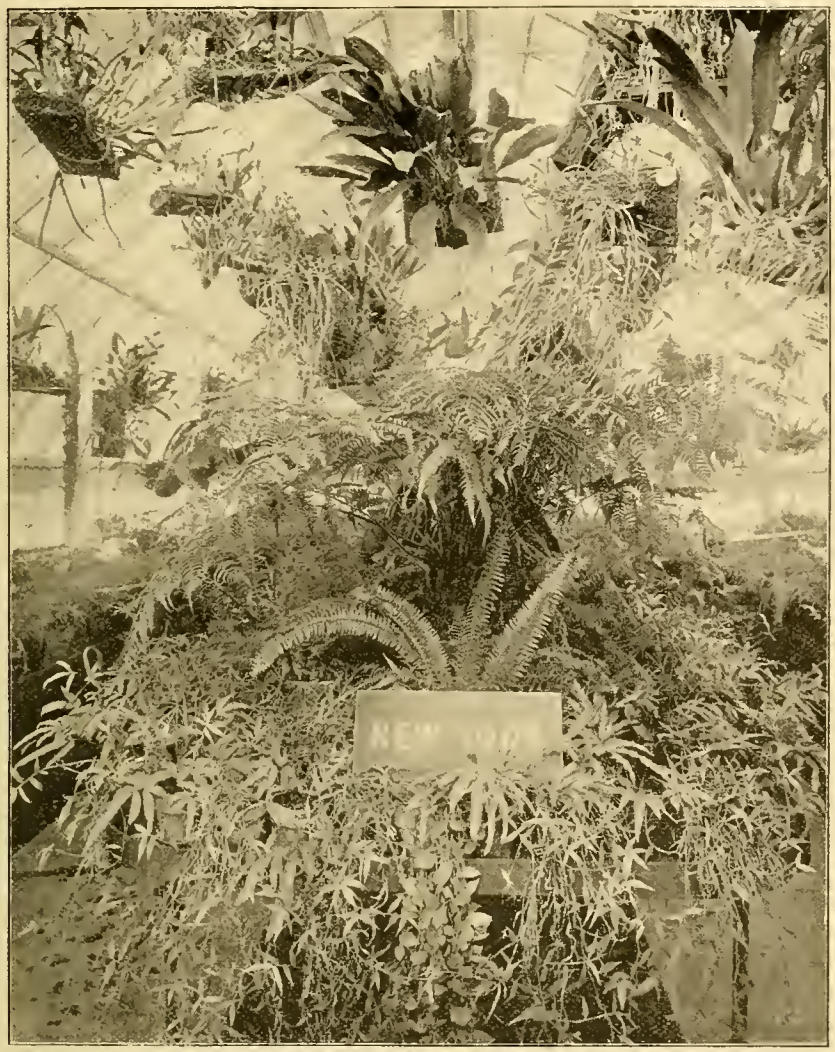
Pot plants have fallen considerably in price. Six-inch stock of Ivory, Whilldin, Le Neige brings from $2.40 to $3 per dozen, 8 and 9-inch pot plants $4 to $6 per dozen. Roses are feeling the effects of the rivalry and are very plentiful. Beauties seem to be hard to sell at present, at least all those who carry them generally say Beauties first, and just before the boxes are strapped up if not sold they are given another chance. Casper Pennock, of Lansdowne, is on top with La France, his stock at present is the best of any we have seen this season, and we have seldom seen better at any time.

The best teas bring $3 to $4. Choice fancy stock $4 to $6. Smaller roses $2. Beauties and Belles 1.50 to 2 per dozen, with from 14 to 16 to a dozen. Carnations are very plentiful and the demand is fair, $1 per hundred is about the price for good stock, while a few extra fine bring $1.25. Mr. Harris has some good Edna Craig that he is asking $2 for; it is choice stock and likely to bring high figures this winter. Elmer J. Weaver, Ronks, Lancaster Co., has very fine Lizzie McGowan and Daybreak, the best we have seen this season; they are handled by S. S. Pennock. Double violets are getting a shade better and sell for 50 cents per hundred, single $3 a hundred bunches. Valley is $4. No Romans as yet. Smilax $12 to $15 per hundred.

A. L. Pennock & Son have dissolved partnership, the place being divided. Mr. A. L. Pennock will direct one-half, while his son Casper will manage the other.

Charles E. Meehan was married October 24, the bride being Miss Mary K. Hetzel, of Germantown. There were three bridesmaids who carried Perle, La France, and Meteor roses, while the bride's bouquet was of Brides and valley. It was a house wedding followed by a reception, at which there was a large gathering of friends. The house was elaborately decorated. Mr. and Mrs. Meehan left shortly after on a tour. A long and happy life to them is our wish, and we feel sure that Charlie's right arm will surely suffer before he gets over his route on his return, as the boys are all laying for him.

It was a great game at the alleys last Thursday night, the score was very close all the way though, but Wm. J. pulled his men up at the finish, winning by eleven



ARRANGEMENT OF ORCHIDS AND FERNS IN NEW YORK STATE EXHIBIT AT THE WORLD'S FAIR.

pins. Kennedy's three strikes in the last frame did the business, while three very difficult spares by the same player earlier in the match brought the boys to their feet with shouts of approbation. George Craig also put up a fine game; he has been No. 1 for five matches in succession.

A large canvas advertising the show has been placed in front of Horticultural Hall; one of the prominent features is a vase of the golden flower in which is to be seen one of a decided bluish tint. This color may be seen at the show, but we doubt it, as Uncle John has corralled all this variety for the Chicago display. He has also captured our Bob, who will no doubt show them a thing or two, but we will have the best show as far as plants go at any rate, for so says Daniel. K.

Chicago.

At the last meeting of the Florist Club officers for the ensuing year were elected as follows: P. J. Hauswirth, president; J. F. Kidwell, vice-president; T. F. Keenan, recording secretary; Hubert Maas, financial secretary; J. T. Anthony, treasurer.

It was decided to have the annual banquet on Thursday, November 9, during the World's Fair Chrysanthemum Show. The club is now seven years old. Mr. Chas. McKellar will read a paper on "packing flowers for shipment" at an early meeting. The subject is a timely one and the paper will undoubtedly be listened to with much interest.

There was much enthusiasm regarding the World's Fair Chrysanthemum Show, and all present agreed to help to the full extent of their ability.

Miss Eloise, daughter of J. A. Pettigrew, superintendent of Lincoln Park, was married to Mr. Geo. T. Sisson, on the 25th inst. The house was very tastefully decorated with plants and flowers, an arrangement of autumn leaves and chrysanthemums in a corner being exceptionally attractive.

The World's Fair banquet, given at the Auditorium, October 25, by the National Commission to President Palmer and the foreign commissioners, was decorated by P. J. Hauswirth. The banquet hall is a very handsome one, even in its ordinary condition, and on this occasion state flags formed a series of panels along the walls, while the colors of all the nations decorated the frieze above. Specimen palms and other plants, loaned for the occasion by Chief Thorpe, stood in the corners and in niches along the wall. Long garlands of smilax and other green crossed and re-crossed over the panelled ceiling, while in the center hung a huge cone, apex downward, formed of yellow chrysanthemums. Numerous electric lights were disposed through this cone, which flashed out red, white and blue, with a beautiful effect.

The main table extended the full length of the room, seven other tables being disposed at right angles to this. All down the main table, facing the others, were large semi-circular banks of yellow chrysanthemums. At either end, on cross tables, were two adjoining arches of green, with banks of chrysanthemums at the bases; these arches were joined by another arch, springing across from table to table. The arches supported electric lights, red, white and blue, making a band of radiance through the delicate green. The effect of the lights and flowers was really lovely. Further decoration on the cross tables was formed by vases of chrysanthemums. Chrysanthemums in pots were used with the other plants; palms and bay trees were disposed in the ante room. This was one of the handsomest decorations of the World's Fair season.

Business is fairly good, with chrysanthemums decidedly on top. There is no overstock of fine specimen blooms at present, and they sell well, the best bringing $4 a dozen. Viviand-Morel is beginning to come in; this is a favorite variety, and there are fine flowers of Mrs. E. D. Adams and Miss Minnie Wanamaker. The best selling colors are without question yellow, pink and white, with white and yellow leading in favor. Bronzes and crimsons do not sell; a few fine blooms of Geo. W. Childs were noted, but there is no sale for them. A quantity of Louis Boehmer was noted at several places, but this variety sells poorly. Roses stay about the same, though Beauties show an advance for the best. Poor roses have become practically unsalable since the advent of the chrysanthemum. Among carnations, Edna Craig and Daybreak bring the highest price, being ranked as fancies, at $2. Violets are still scarce; a few of the variety Lady H. Campbell have been received, and created a very favorable impression.

A good deal more is going on now in the social world, increasing the demand for flowers, and the death of Mayor Harrison has also made an impression on the local trade. Among designs ordered by persons connected with the City Hall were a chair five feet high, surmounted by an eagle, a gates ajar of colossal size and an immense standard star and crescent.

Recent visitors: I. N. Marsh, Plattsburg, Ohio; John Bingham, Warwick, N. Y.; David Rust, with H. A. Dreer, Philadelphia; U. G. Scollay, Brooklyn, N. Y.; J. Wilkinson Elliott, Pittsburg, Pa.; Stephen Taplin, Detroit, Mich.; John Burton, Chestnut Hill, Philadelphia; F. G. Foster, Hamilton, Ont.; R. F. Lawrence, Short Hills, N. J.; C. D. Thayer, Worcester, Mass.; Thos. Young, Jr., New York City; Ernst Asmus, West Hoboken, N. J.; Andrew Bather, Clinton, Iowa; C. P. Grimmer, Boston, Mass.; Gus Knoch and wife, Woodmere, Mich.

ERIE, PA.—It has been finally decided not to hold a chrysanthemum show here this year.

ALBANY, N. Y.—Park Superintendent Egerton is making a chrysanthemum display in Washington Park, which commenced November 1 and lasts a week.

Please mention the AMERICAN FLORIST every time you write to an advertiser.

Buffalo.

The chrysanthemum crop is in and soon will be in full blast. Up to date the best flowers have retailed for $2.50 or $3 for very fine; small flowers for what you can get. Only the very earliest have been offered in any quantity, and there has been no surplus at present. Ivory for white and Whilldin for yellow are the standard varieties for early cutting. Hicks Arnold, Mrs. Wm. F. Dreer and Col. W. B. Smith are in good form at this time. The supply of roses is still abundant, and prices low for this time of year, except perhaps in the case of Beauty, the supply of which has shortened up considerably. Meteor seems as great a favorite as last year, and we all have to keep it. The first big lot of carnations are gone and they are not now seen in such quautities, but are better in quality. Daybreak, on account of its delicate color and grand stem, is in the lead. There has been a number of small weddings recently, helping out business. The sudden death (killed at one of the many grade railroad crossings with which our city is cursed) of Mr. Porter, the popular superintendent of Buffalo's street railway, called for a number of large and elaborate designs, the employes of the different barns and offices each sending a handsome piece. Among the many fine offerings was a trolley car, finely executed by W. J. Palmer & Son.

After a good long vacation the Florists' Club got together last week, and, although not numerously attended, the meeting was lively and interesting. A member brought in a set of resolutions, which he asked the club to adopt, denouncing in most decided terms the undue advertising and soliciting of their business in connection with funeral orders. Some of the charges were grave, others were of an ordinary style, and what I fear can be noticed in every city. The discussion brought every member to his feet in earnest too. With one or two exceptions every member present denounced severely any approach to advertising one's business on such an occasion. The subject proved so important in the opinion of the majority that it was laid on the table till our next regular meeting, which will bring out a large attendance I am sure, and you shall receive the opinion of our club on this delicate subject after that.

Wm. Scott has opened a branch store on Elk street in the most populous part of South Buffalo. The opening occurred on a Saturday noon, and although a very slight inducement was offered to visit the store it took a sergeant and two patrolmen to keep the street clear, and the visitors had to be let into the store in blocks of thirty and then out at the rear.

All florists who read these notes, particularly in this vicinity, will please (if they have not already) send to Mr. Michel of St. Louis, as requested by him in the FLORIST two months ago, an account of their fire insurance. Great benefit may come to all of us by united action; and all should feel interest enough in the subject to answer the questions without delay. I have not the questions before me; they are, however, briefly this:

What amount of glass have you?

How much insurance do you carry?

What proportion on stock, and what on buildings?

What rate of insurance do you pay?

It is surprising to me how few florists on their return from the World's Fair have much to say about this great sight, unequalled in the history of the world. It is true you cannot describe it, but I can say you cannot afford to miss it. The stories of extortion and robbery are pure humbug. The management is superb. The neatness and cleanliness of the grounds is a revelation and the buildings and their contents "passeth all understanding." There may be bigger things at the Fair than Horticultural Hall and the Persian theatre, but the new varieties, sports and variations are to be seen at every turn. There is time yet.

W. S.

St. Paul, Minn.

Retail trade has improved somewhat. Prices run about as follows: Perles, Niphetos, Mermets and Bons, $1 per dozen; Albany, La France, Bride, Wootton and Bennetts, $1.25 per dozen; Meteors, Testout and Kaiserin, $1.50; Beauties, $3 to $4 per dozen. Carnations, 40 to 60 cents per dozen; "Mums," from 75 cents to $4 per dozen.

The supply is good and the quality excellent. Beauties are in great demand, with supply meagre. Mums are selling well, both blooms and potted plants. A. S. Swanson has one house planted to mums grown to single stems. They are fine, bring a good price and are as remunerative as potted plants. If more were grown in this manner we think better flowers and better prices would be the the rule.

Stock about town is looking fine. May & Co. have a house of Albanys and La France that can't be beaten anywhere. Every plant is loaded with buds and every bud seems to come to perfection. Their rose growers, Messrs. Souden and Wild, seems to have the art of "making" roses under any and all conditions. We presume the secret of it all is constant watchfulness and plenty of nourishment.

Chris Hansen is just now cutting some beautiful roses, Perles, Bennetts, Beauties, Brides, etc. Chris is a hard, conscientious worker and deserves success.

Our genial Alderman Warren seems to be as successful in growing flowers as in selling real estate. Like everything else he undertakes it is bound to move. The warm sunshine of his presence will make the "desert bloom" every time.

E. F. Lemke has some nice roses; in fact he always has them in season and out, and his houses always show the care and attention he bestows upon them.

The fact is, St. Paul is well represented by live, hustling florists who know their business, know how to grow flowers and how to serve them out to its critical buyers among the "four hundred."

We are having a little cold snap, and fires have to be kept up all the time now. Six months of continuous firing with coal at "combine" prices will keep prices of flowers right whether the supply and demand are equal or not. Florists here have not and will not engage in cutting prices simply because a few flowers go to waste.

A large department store in Minneapolis is offering roses for Monday at 25 cents per dozen. Surely these must have been cut in Chicago on Friday or Saturday. What will they be like when our debutante wears them to the ball Tuesday night? Withered flowers indeed, and we fear withered hopes for the young gallant at her side who bought them on "bargain day."

Some of our florists intend to go to the "Mum" show in your city. We have not learned what they propose to exhibit. We hope, however, that they will return laden with trophies, for surely no finer flowers were ever seen under glass than are now being cut in the saintly city.

FELIX.

Floral Decorations.

It is a little early yet to say much about styles in decoration for this season; perhaps we shall see nothing very startling, for changes, as a rule, come about very gradually. Unfortunately for the florist, corsage bouquets have practically disappeared, a single specimen bloom being about the only thing worn, and that only occasionally. Violets, however, still retain full favor for street wear, and it is not likely that they will ever go out of fashion.

In table arrangements the prevailing taste is still for rather low plateaus, nothing that will destroy the line of vision being permissible. The practice of arranging the favors, loose bunches, into this plateau, so that they can readily be removed, is a commendable one, and seems to be gaining ground. There is certainly an increasing favor shown to smilax, in place of asparagus; apart from its gracefulness it stands so well and does not suffer where electric lights are used in conjunction with the flowers. These lights are used so much now in banquet or ball decoration that it becomes necessary to consider the durability of the flowers used with them.

During chrysanthemum time we see some very pretty effects obtained by the use of autumn leaves as foliage. The colors harmonize admirably with the flowers, and the heavy leaves show to much better effect than light sprays. The use of oak and other well colored foliage in church decoration has produced some very pretty effects.

There is no doubt that the favor shown to orchids is really increasing; they appear in dinner, wedding, luncheon and reception arrangements. On the table few flowers equal them, and for mantels and wedding canopies they are very rich. We see rather more fine plants used now than formerly in room decoration, and there is a tendency to avoid the formality of heavy banks, and to distribute them in harmony with the general plan of the room.

For funeral flowers there is a decided reaction against stiff designs, though many of them are still made. But flat bunches, or cycas leaves with a knot of flowers, undoubtedly lead. People with a love for the symbolic, however, still crop up, and we heard recently of an order in memory of a departed carpet layer, which consisted of a flight of steps with partially unrolled stair carpet, and on it a broken shears and carpet stretcher! Such monstrosities, however, become rarer every year.

LEXINGTON, KY.—Mrs. Honaker has this year made great improvements in her greenhouses, having erected one rose house (considered by all who see it the finest in the state) 30x150 feet, all iron and cypress, with 16x24 double strength glass; a carnation house 12x150, chrysanthemum house 12x150 and palm house 20x75; all iron and cypress, double strength glass, heated by steam, with boiler shed 20x80 feet. Two more houses 11x150 feet will be started soon, making fully 1,400 feet of new houses this season. Bell, the florist, has issued a handsomely gotten up announcement of a display of chrysanthemums at his store October 30 to November 1.



ASTER NOVÆ-ANGLIÆ.



ASTER NOVÆ-ANGLIÆ ROSEA.

HARDY ASTERS.

Hardy Asters.

We present illustrations of two hardy native asters which should find a place in every herbaceous garden. We are prone to neglect our native plants, though their beauty and usefulness is amply recognized abroad. Any one who has noted the show made by native asters on the Wooded Island at the World's Fair, after other flowers were past, and this in spite of a most trying season, will recognize their fitness for a place in the hardy garden.

Random Chicago Notes.

Discussing the question of bulbs in pots recently with a Chicago wholesaler, he gave his experience when managing a store business. Each year he bought good hyacinths and tulips, named sorts, and planted them either singly or several in a large pot. Being good fresh bulbs and good varieties they were very attractive, and there was never any trouble in selling. They probably cost four to six dollars a hundred, but a pot containing six blooming bulbs sold easily for seventy-five cents in the store. But the usual practice with a great many growers is to wait until one of the seed stores offers the cullings of their bulb stock at a low price, buy this refuse, pot it up, and then sell off the lot for anything they will bring. They argue that they can afford to sell sell these plants off cheap around Easter or early spring, because they didn't cost much to buy, and cost nothing to grow. Perhaps this is the reason why a big dry-goods house in Chicago was able to sell blooming tulip plants at eleven cents each last Easter. They were really worth that too. But people who saw the advertisements of that sale, without seeing the quality of the stock, would be very apt to object to paying for better stuff in a florists' store. Still, there seems no doubt that a certain amount of well grown, good quality bulbs will pay in pots or pans—if for nothing else they will make a fine show in the florists' windows, as anyone who has seen Thorley's window so decorated in New York will agree.

We find chrysanthemums in pots rather neglected here; the prevailing stock is certainly weedy. A good many of them look as if they had been planted out, and then suddenly taken up and jammed into a pot. A very good looking, even-sized benchful was noted recently at J. F. Kidwell's place, well furnished with leaves, and well set with bloom, showing good care in pinching and disbudding, as well as feeding, but unfortunately few grown for the wholesale market seem of this style. Growers should remember that it pays to disbud the pot plants; a fair allowance of fine blooms will make a better showing than a haphazard sprinkling of undersized sprays.

Speaking of chrysanthemums, it seems this year as if white leads all other colors in the cut flower market, with yellow second, and pink third. Dull pinks do not sell at all, nor do bronze or crimson. One can hardly wonder that Louis Boehmer does not sell, the color being so livid and the flower being rather unattractive in form. This, by the way, is the only hairy flower coming into the Chicago market. Mrs. Hardy appears to be dead here, and we do not see any of the newer ones.

White chrysanthemums are being used so largely in funeral work, as everything else, that they affect the market for the useful carnation. The only rose not affected in any degree by the chrysanthemums is the Beauty. "Fine roses fifty cents a dozen" is a familiar sign now in the stores.

Chrysanthemum Notes.

VISIT the flower shows and note the varieties you like best. See the old and the new kinds, and mark that while a fine flower is a desideratum, a plant or cut bloom to have merit nowadays must have stout stems as stiff as a poker and clean, deep green, succulent foliage from the base to the bud.

SEEDLING CHRYSANTHEMUMS are very easily raised and make a great show of blossoms the first year. As a rule they are of vigorous constitution, and if grown to bushes make big plants that bear a large quantity of blossoms, All manner of flowers—large and small, double, semi-double and single, and of all types and colors peculiar to the race, are found among them.

HAIRY FLOWERS are getting most as common as plain ones, and many colors are now represented among them. Indeed, in a pretentious greenhouse establishment the other day we saw such a large lot of this year's seedling hairy chrysanthemums in bloom, that the florist is preparing them all for seed-bearing, intending to offer the seed of the hairy flowers as a novelty in his catalogue next spring. And it will be a worthy novelty too.—*Gardening, Nov. 1.*

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and treasurer, 116 Chambers street, New York. Next annual meeting second Tuesday in June, (will probably be held in Toronto.)

VISITED CHICAGO: William Meggat, C. C. Morse, J. M. Kimberlin & Son, W. C. Langbridge, F. R. Pierson, H. G. Faust, R. Engelmann, E. Schaettel.

A FEELING of uncertainty as to spring trade makes a dull seed market at present. Those who are offered apparent bargains hesitate to purchase in the face of dull business, want of cash, and a distrust of the spring demand.

Funeral Flowers for Chicago's Mayor.

Mayor Harrison's untimely end brought out an ocean of floral tributes, showing various degrees of taste and a most generous expenditure of money. At the City Hall, where the remains laid in state, to be viewed by thousands, an improvised death chamber was formed by draperies of black cashmere. Ropes of smilax were stretched and looped in curves over this black background, the smilax being twisted with pink and white roses. At the bottom of each loop was a wreath of roses and chrysanthemums. At regular intervals were three black draped stands, bearing floral emblems.

On the casket was a wreath of laurel leaves encircling the name plate. Below this were a wreath of lily of the valley and a pillow of roses. Running down from the foot of the casket to the floor was a great scroll of white roses, bordered with pink, bearing in purple the name of the Mayor's newspaper, the *Times*. Against the head of the casket was a great shield of white chrysanthemums, marked in floral letters as a tribute from the city map department.

Among other noticeable designs were a big star of white roses and chrysanthemums; a municipal shield five feet high, made of white, pink and yellow roses, with quarterings of chrysanthemums; a circle of roses three feet in diameter; a model of the late Mayor's house, five feet high, in white chrysanthemums and roses; wigwam of white chrysanthemums, orchids and valley; shield surmounted by a crown, tied with Italian colors, the gift of Italian societies; floral stairway, the stairs marked with the dates of Mr. Harrison's several inaugurations as mayor, with at the top open gates of roses; vacant chair five feet high, made of white chrysanthemums and valley, with a floral eagle on top; large old fashioned clock of white chrysanthemums and yellow roses, the hands stopped at the hour of the mayor's death; pillow of roses with star in center and words "Central Detail" below. In addition to these there were wreaths, crosses, broken columns and anchors without number; without doubt the greatest number of elaborate designs ever seen at any funeral in Chicago. The effect on the flower trade was quite marked.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—With florist or grower, by young lady accustomed to the business. Address M B, care American Florist, Chicago.

SITUATION WANTED—By practical florist; age 35, single, German. Good references. Address H P, care Th. Price, Lake Geneva, Wis.

SITUATION WANTED—Young man of ability as designer and maker-up in city store; first class decorator, good salesman; Al reference. Address DECORATOR, care American Florist.

SITUATION WANTED—By experienced, practical florist and gardener; single. First-class recommendations. Roses and carnations a specialty. Address WM. A BLACK, 56 Hartford St., Roxbury Station, Boston, Mass.

SITUATION WANTED—By a first class practical seed grower and seed clerk; 10 years experience in Germany; German, single, age 26; satisfactory references. W. LANZ, care J. Willem. 2705 Passayunk Ave., Philadelphia, Pa.

SITUATION WANTED—By a single young man who thoroughly understands the growing of palms, roses, carnations and general greenhouse stock; long experience in U. S. and Europe; sober and steady. Good references. Address FLORIST, care American Florist, Chicago.

SITUATION WANTED—Young man, 15 years experience, wants position as foreman or assistant; first class grower of roses, carnations, violets and general greenhouse stock, good designer and maker-up, also good decorator; Al reference. Address ABILITY, care American Florist.

SITUATION WANTED—As foreman on commercial place; single, age 30; has a thorough knowledge of the profession in all its branches. Roses, carnations and bulb forcing, and the growing of all kinds of plants. References on application. THOS. MCKENZIE, 56 Lindus St, Cleveland, O.

WANTED—A good man to grow fine flowering plants, bulb stuff, etc. Address with reference. JNO. E. ROSE, 105 E. Broad St., Richmond, Ind.

WANTED—A rapid and reliable packer of green house plants for the catalogue mail and express trade, about January 1st or sooner. Address with full particulars. WESTERN, care American Florist.

FOR SALE—1,200 feet 4-inch pipe and fittings (Weathered make), as good as new. MRS. GEO. WALDBAUER, Saginaw, Mich.

FOR SALE—$4,000, long established florist business; 4,500 feet of glass; seven-roomed dwelling. Only florist in county. Must move on account of very poor health of wife Address INDIANA, care American Florist, Chicago.

WANTED.

A customer to handle the bloom from three thousand Carnation plants.

F. L. HOTCHKISS, L. B. 1184, Ansonia, Conn.

FOR SALE.

Wishing to retire from active business, I will sell the largest retail florist business in Union county. Store fixtures, good will and everything in retail department. Business city of 40,000 inhabitants. Full particulars upon application to

JOHN WHITE, 87 Broad St., Elizabeth, N. J.

FOR SALE.

Rose and Carnation Growing Establishment: also well adapted to Smilax and Asparagus.

Several acres of ground; 15,000 feet of glass; substantial buildings, with all modern improvements, only five minutes from center of city of 30,000 population, convenient to New York and Philadelphia. Will be sold for much less than cost of erection; terms easy.

Address EASTERN, care American Florist.

FOR SALE 10,000 CARNATIONS.

Good, strong, healthy plants, $5.00 per 100, or $40.00 per 1000, such as Hinze's White, Wm. Swayne, W. F. Dreer, Wanderer, Morning Ray, Golden Gate, Springfield, Seawan, Sunrise, Portia. Address I. LARKIN, Toughkenamon, Pa.

SMILAX, 2½-inch pots, $2.00 per 100; $15.00 per 1000
VIOLETS, Schoenbrunn, best single, large clumps, $8.00 per 100. Cash with order.

P. M. DeWITT,
Station N. Torresdale, Philadelphia.

A BARGAIN.

To close out stock of SMILAX offer 800 strong, healthy plants from 2-inch pots; the lot for $10.00. Cash must accompany order.

R. E. NOEL,
Box 62. Rogersford, Montg. Co., Pa.

New, Rare and Beautiful Plants,

ETC., ETC.

A large collection of Hothouse and Greenhouse Plants, carefully grown, at low rates.

RARE AND BEAUTIFUL EVERGREENS, ORNAMENTAL TREES, SHRUBS, &c

ORCHIDS—a very extensive stock; East Indian, Mexican, Central and South American, etc.

Hardy Perennials, Pæonies, Phloxes, Japanese Iris, Roses, Clematis, etc. New and Standard Fruits, etc.

☞Catalogues on application.

JOHN SAUL, Washington, D. C.
Mention American Florist.

Z. De Forest Ely & Co.

WHOLESALE SEEDSMEN,

Growers AND Importers of Bulbs.

JOBBERS IN FLORISTS' SUPPLIES.

1024 Market Street, PHILADELPHIA, PA.

Price lists to dealers on application.

Sweet Pea Seed

MISS BLANCHE FERRY. . . $.60 lb.
QUEEN OF ENGLAND . . . 1.50 lb.
BUTTERFLY, ...60 lb.
MIXED 45 lb.
Cash with order. . . .

LAKE GENEVA FLORAL CO.,
LAKE GENEVA, WISCONSIN.

FRESH IMPORTED ORCHIDS.

Cattleya Gaskelliana,

5—7 Bulbs, $.75 each.
7—12 Bulbs, 1.25 each.
Larger plants, $2.00 to $5.00 each.

I. FORSTERMAN,
Newtown, N. Y.

SPEAK QUICK!

IF YOU WANT THEM.

25 LATANIA BORBONICA, 12-inch pots, fine specimens, $20.00 each.
NEPHROLEPIS EXALTATA, 4-inch. . . $10.00 per 100
" " 3-inch. . . 7.00 per 100
PHOENIX RUPICOLA, 6-inch. . 10.00 per doz.

All the above in fine condition and ready for a shift.

JOHN IRVINE GREENHOUSE CO.,
BAY CITY, MICH.

Lilium Superbum

12,000 SPLENDID BULBS.

	Per 100	Per 1000
1st Size, extra	$6.00	$45.00
2nd Size, fine	3.50	30.00
3rd Size, strong	3.00	20.00
Lilium Grayi	20.00	

Finest stock on the market. Immediate orders.

Harlan P. Kelsey,

HIGHLANDS NURSERY, LINVILLE, N. C.

You Need a Copy

—OF OUR—

Trade Directory

AND

REFERENCE BOOK

if you do not already have one. We will send you one together with our Supplement for 1893 for $2.00.

AMERICAN FLORIST CO.,

P. O. Drawer 164. CHICAGO.

Chrysanthemums.

CUT BLOOMS.
FINE SPECIMENS.

Dozen, $2.00 and $3.00. . .

VAUGHAN'S GREENHOUSES,
WESTERN SPRINGS, ILL.

EXTRA HEAVY

TWO YEAR OLD HERMOSA ROSES.

We have growing in the open ground a beautiful lot of extra heavy, two year old Hermosa Roses. The plants average 24 to 30 inches in height, bushy and strong and will make fine plants to pot up into 6 and 7-inch pots for next **SPRING SALES.** *Price, $15.00 per 100; per 1000 $140.00.*

IMPORTED BUDDED ROSES.

Our importations of these arrive the latter part of November and promise to be very fine this season. We offer all the leading varieties as follows:

Alfred Colomb, Anna de Diesbach, Baron de Bonstettin, Baroness Rothschild, Boule de Niege, Duke of Edinburgh, Fisher Holmes, Gen. Jacqueminot, Gloire de Mousseuses (Moss), Magna Charta, Merveille de Lyon, Mons. Boncenne, Mrs. John Laing, Paul Neyron, Prince Camille de Rohan, Ulrich Brunner, White Baroness, Xavier Olibo.

$12.00 per 100; $100.00 per 1000.

Alfred K. Williams, Blanche Moreau (Moss), Captain Christy, Countess Murinais (Moss), Duchess of Albany, Earl of Dufferin, Gloire de Margottin, Persian Yellow, Queen of Queens, Rugosa, Rugosa Alba, Souvenir de Malmaison.

$15.00 per 100.

Gloire de Dijon. Marechal Niel.

Extra fine stock. $20.00 per 100.

NOW is the time to order the above. Pot the plants as soon as received and plunge the pots into a cold frame, where they will winter at little expense. Root action will begin almost at once, and the plants will be in the best possible condition to bring into your houses at the proper time, with much better result than if potted up late in winter or early spring.

If you are in need of **PALMS, FERNS** or other **DECORATIVE STOCK** do not fail to consult our trade list. We have forty houses filled with this class of plants, all in the best possible condition for immediate sales.

HENRY A. DREER, Philadelphia, Pa.

10,000

JAGQ ROSE PLANTS

From open ground, 1 and 2 year old, on their own roots, well branched.

2 feet high.....$10.00 per 100
2 to 2½ feet high..... 12 00 "
2½ to 3½ feet high..... 15.00 "
Sample of 8 for $1.00 in advance.

JORDAN FLORAL CO.,
706 OLIVE ST., ST. LOUIS, MO.
Mention American Florist.

ROSES.

Fine healthy stock. Per 100 P. 1000

Perles, Mermets, The Bride, Sunset, Niphetos, Bon Silene, Souv. d'un Ami, Duchess of Albany, Mme. Cusin, Mme. de Watteville, from 3-in. pots..... $6.00 $50.00
SMILAX, from 2¼-inch pots..... 2.50 20.00

Lots of other Fine Stock.
Send for new list.

WOOD BROTHERS,
Fishkill, N. Y.
Mention American Florist.

Begonia Vernon.

Nice plants of this everblooming Begonia, $4.00 per 100.

Roses, Cheap.

Hermosa, Soupert, Meteor, Marie Guillot, La France, and Bridesmaid.

Good plants, from 2½-inch pots.

Address **JOHN A. DOYLE,**
Springfield, Ohio.

ROSES—HYBRID PERPETUAL.

Strong, two year field-grown. Much superior to Imported stock, finely rooted and well ripened. Leading varieties.

GEN. JACQUEMINOT, MARSHALL P. WILDER, MAGNA CHARTA, PRINCE C. DE ROHAN, ANNA DE DIESBACH, ULRICH BRUNNER, MRS. J. LAING, ALFRED COLOMB, PAUL NEYRON, BARON BONSTETTIN, EUGENE FURST, FRANCOIS LEVET.

Twenty other varieties in smaller quantities.

$10 00 per 100; $90 00 per 1000.

Full assortment Moss and Hardy Climbers.

Large list Shrubs, Hardy Plants, Climbing Vines, Greenhouse Plants Bulbs, Etc.

THE STORRS & HARRISON CO.,
Painesville, Ohio.

Forcing Roses.

A stock of the best varieies always on hand.

M. A. HUNT, Terre Haute, Ind.
Mention American Florist.

ROSES.

FINE, HEALTHY STOCK,

from 2½-inch pots. All the leading forcing and fancy garden sorts of Teas and Hybrid Teas.

Prices on application.
MEMPHIS FLORAL CO., Memphis, Tenn.

The Grand New Forcing Rose,

"American Belle."

Prices and full particulars on application.
John Burton, Chestnut Hill, Philadelphia.

ROSES.

		Per 100	Per 1000
1500	Perle, 3-inch	$ 5.00	$40.00
1000	" 2½-inch	3.00	25.00
600	Bride, 2½-inch	3.00	25.00
1200	Mermet, 2½-inch	3.00	25.00
200	Hoste, 2½-inch	3.00	

BROWN & CANFIELD, Springfield, Ill.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Chrysanthemum Shows.

Chicago, Nov. 4-14—World's Fair Chrysanthemum Show. W. C. Egan, Sec'y, Horticultural Building, World's Fair.
Newport, R. I., Nov. 6-8—Newport Horticultural Society. John J. Butler, Sec'y, P. O. box 313.
Baltimore, Nov. 6-11—Gardeners' Club of Baltimore. Wm. McRoberts, Jr., Sec'y, 304 W. Madison St.
New York, Nov. 6-13—New York Florists' Club. John Young, Sec'y, 53 West 30th St. Henry McCrowe, manager of exhibition, Grand Central Palace.
Milwaukee, Wis., Nov. 7-9—Milwaukee Florist Club. A. Klokner, Sec'y, 219 Grand Ave.
Hartford, Conn., Nov. 7-9—Hartford County Hort. Society. Edw. S. Young, Sec'y, 60 Oak St.
Boston, Nov. 7-10—Massachusetts Horticultural Society. Robert Manning, Sec'y, 101 Tremont Street.
St. Louis, Nov. 7-10—St. Louis Florists' Club. E. Schray, Sec'y, 4101 Pennsylvania Ave.
Indianapolis, Ind., Nov. 7-11—Society of Indiana Florists. Wm. G. Bertermann, Sec'y, 37 Mass. Avenue.
Philadelphia, Nov. 7-11—Pennsylvania Horticultural Society. D. D. L. Farson, Sec'y, Broad St.
Worcester, Mass., Nov. 8-9—Worcester County Hort. Society. Edw. W. Lincoln, Sec'y.
Montreal, P. Q., Nov. 8-10—Montreal Gardeners' and Florists' Club. Henry Stocking, Sec'y, 230 St. Denis St.
Providence, R. I., Nov. 8-10—Rhode Island Hort. Society. C. W. Smith, Sec'y, 61 Westminster St.
New Haven, Conn., Nov. 8-10—New Haven Chrysantbemum Club.
Wooster, O., Nov. 8-10—Wooster Floral Club.
Louisville, Ky., Nov. 9-14—Louisville Florists' Club. H. Nanz, Sec'y, 582 Fourth Ave.
Springfield, Mass., Nov. 14-16—Hampden County Hort. Society. Joseph Booth, Sec'y, care of Springfield Institutiou for Savings.
Washington, Nov. 14-17—Florists' Club of Washington. G. W. Oliver, Sec'y, 1844 8th St., N. W.
Toronto, Ont., Nov. 21-24—Toronto Gardeners' and Florists' Associatiou. A. H. Ewing, Sec'y, 85 Carlton St

COLUMBUS, O.—Mr. J. R. Hellenthal has remodelled his entire plant of nine houses and put in a new tubular boiler. He has also opened a store at 117 South High street, which is managed by his daughter, Miss Barbara.

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
WHOLESALE
FLORIST,
1122 PINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

CUT FLOWERS.
Roses, Carnations
AND Chrysanthemums.
Write for prices.
GEO. A. KUHL, Pekin, Ill.

Chrysanthemum Cut Blooms.
Single blooms on long stems, various sizes, shipped on short notice. Prices range from $4.00 to $12.00 per 100. Address
J. G. BURROWS, Fishkill, N. Y.

"JACQ" ROSES the Year Around.
We are now Cutting THOUSANDS DAILY of
METEOR ROSES.
The finest Crimson Summer Rose, equal to "Jacq" in color and far superior in keeping qualities. Can supply it in quantity at all times. Prices on application.
F. R. PIERSON COMPANY,
Tarrytown-on-Hudson, N. Y.

CHRYSANTHEMUMS that have no superior
VALLEY that can't be beat—it is fine.
ROSES, all varieties first-class.
CARNATIONS in variety.
ADIANTUM, ASPARAGUS and all flowers in season.
Send in your orders; I can fill them; and will properly pack and ship on time.
T. J. CORBREY, Wholesale and Commission Florist,
PHONE, MAIN 4508. 45 Lake St., CHICAGO.

J. B. DEAMUD & CO.
Wholesale Cut Flowers.
OUR SPECIALTIES AT PRESENT:
Chrysanthemums, Valley, and the finest stock of Roses in the market.
All shipping orders are filled from fresh cut stock of our own growing.
45 Lake Street, CUT FLOWER EXCHANGE, **CHICAGO.**

FOR DECORATING, NOTHING CAN EQUAL
ASPARAGUS PLUMOSUS NANUS.
CUT STRINGS 8 TO 12 FEET LONG, 50 CTS. 12 TO 18 FEET LONG, $1.00.
Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.
W. H. ELLIOTT, Brighton, Mass.

CUT FLOWERS.
Novelties and New Introductions in
ROSES AND CHRYSANTHEMUMS.
Fine Exhibition Stock.
THOS. YOUNG, JR.,
WHOLESALE FLORIST,
20 WEST 24TH ST., NEW YORK

DAN'L B. LONG,
COMMISSION • FLORIST,
495 Washington St., BUFFALO, N. Y.
FORCING BULBS, FLORISTS' SUPPLIES, LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application.

WHOLESALE FLORISTS
La Roche & Stahl
N. E. CORNER
13th & Chestnut Sts.,
PHILADELPHIA.
Mention American Florist.

SAMUEL S. PENNOCK,
Wholesale Florist
REMOVED TO REAR OF 42 S. 16th ST.,
Philadelphia, Pa.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO.

	Per 100
Perles, Niphetos, Gontier	$ 2.00@$ 3.00
Bride, Mermet, La Frauce, Victoria	3.00@ 4.00
Testout, Meteor	5.00@ 6.00
Am. Beauty	10.00@ 18.00
Roses, our selection	3.00
Carnations, long	1.00@ 1.50
" short	.50@ 1.00
Valley	4.00@ 5.00
Chrysanthemums, common	2.00@ 6.00
" fancy	8.00@ 30.00
Smilax	15.00@ 18.00
Ferns	per 1000 $2.50. .30
Adiantum	1.00
Fresh Cycas leaves	$1.00 each.

Western Agent for the GREAT ANTIPEST.

Kennicott Bros. Co.
WHOLESALE CUT FLOWERS,
34 & 36 RANDOLPH STREET,
CHICAGO, ILL.
WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist,
126 Dearborn St., CHICAGO.
Agent for finest grades Waxed and Tissue Papers.

NILES CENTER FLORAL CO.
Incorporated.
WHOLESALE GROWERS OF
CUT FLOWERS of ALL KINDS
and Dealers in FLORISTS' SUPPLIES.
CHAS. W. McKELLAR, Mgr.
In Chicago Cut Flower Exchange,
45 Lake St., CHICAGO.

H. L. SUNDERBRUCH,
Wholesale Florist
4TH AND WALNUT STREETS,
Cincinnati, O.

W. ELLISON,
WHOLESALE
Cut Flowers AND Florists' Supplies
1402 PINE STEET,
St. Louis, Mo.

CUT SMILAX,
15 cts. per string till November 1st. Quality first-class. Special attention to orders by wire.
J. E. BONSALL & SON, 308 Garfield Ave., Salem, O

WHOLESALE FLORISTS,
JOBBERS IN . . . FLORISTS' SUPPLIES, FLORISTS' VASES.
METS, BRIDES, GONTIERS, CARNATIONS, ALWAYS ON HAND.
1 Music Hall Place, BOSTON, MASS.
HORTICULTURAL AUCTIONEERS. . .

Wholesale Markets.

Cut Flowers.

NEW YORK, Oct. 28.

Roses, Gontier, Perle, Cusin, Watteville	.50@ 2.00
" La France, Mermet, Bride, Hoste	.50@ 3.00
" Bridesmaid, Augusta Victoria	1.00@ 5.00
" Testout, Meteor	1.00@ 5.00
" Beauty	5.00@15.00
Carnations	.30@ 1.00
Chrysanthemums, selected	8.00@15.00
" small	1.00@ 3.00
Violets	.25@ .75
Valley	2.00@ 3.00
Smilax	12.00
Adiantums	1.00
Asparagus	50.00

BOSTON, Oct. 28.

Roses, Gontier, Niphetos, Perle, Sunset	1.00@ 2.00
" Bride, Mermet	1.50@ 2.00
" Meteor, La France	2.00@ 4.00
" American Beauty	8.00@12.00
Carnations	.50@ 1.00
Chrysanthemums	2.00@10.00
Lily of the valley	4.00
Tuberoses	.50@ 1.00
Violets	.25@ .60
Smilax	12.00
Adiantum	1.00
Asparagus plumosus	50.00

PHILADELPHIA, Oct. 28.

Roses, Perle, Gontier, Niphetos	1.50@ 2.00
" Cusin, Watteville, Hoste	1.50@ 2.00
" La France, Mermet, Bridesmaid	3.00@ 4.00
" Bride, Testout	3.00@ 4.00
" Meteors, Kaiserin	4.00@ 6.00
" Belle, Beauty	12.00@16.00
Carnations, long	1.00@ 1.25
" short	.75
Violets, per 100 bunches, single	3.00@ 4.00
" double	.50
Chrysanthemums, first choice	16.00
" second choice	8.00@12.00
" sprays, per 100 flowers	2.00@ 3.00
Valley	3.00@ 4.00
Mignonette	1.00@ 2.00
Bouvardia, heliotrope	1.00
Smilax	12.00@15.00
Asparagus, per bunch	.50
Adiantum	1.00@ 1.50
Mushrooms, per pound	.50@ .80

CHICAGO, Oct. 31.

Roses, Perle, Gontier, Niphetos	2.00@ 3.00
" Bride, Mermet, La France	3.00@ 4.00
" Kaiserin	3.00@ 4.00
" Meteor, Testout	5.00@ 6.00
" Beauties	8.00@20.00
Carnations, long	1.00@ 1.50
" short	.50@ 1.00
" fancy	2.00
Valley	4.00@ 5.00
Chrysanthemums, common	2.00@ 6 00
" fancy	8.00@40.00
Violet double	1.00@ 1.50
Smilax	15.00@18.00
Asparagus	60.00

ST. LOUIS, Oct. 30.

Roses, Gontier, Perle, Niphetos	2.00@ 3.00
" Bride, Mermet, La France, Hoste	3.00@ 4.00
" Wootton	2.00@ 3.00
" Meteor	3.00@ 5.00
" Beauty	5.00@20.00
Carnations, short	.75@ 1.00
" long	1.00@ 2.00
Chrysanthemums, common	2.00@ 6.00
" fancy	10.00@30.00
Smilax	12.00@18.00
Adiantum	1.00@ 1.25
Ferns, fancy	.20

CINCINNATI, Oct. 25.

Roses, Beauty	5.00@15.00
" Mermet, Bride, La France	4.00
" Perle	3.00
Carnations, long	1 00
" short	.50
Chrysanthemums	5.00@ 25.00
Valley	4.00
Smilax	15.00
Asparagus	50.00@75.00
Adiantum	1.00@ 1.25
Cyclamen plants, per doz	6.00@12.00

BUFFALO, Oct. 30.

Roses, Beauties	12.00@20.00
" Gontier, Niphetos, Hoste, Perle	3.00@ 4.00
" Mermet, Bride, Meteor, Testout	4.00@ 6.00
" La France	5.00@ 8.00
Carnations, long	1.00@ 1.50
" short	1.00@ 1.75
Valley	5.00
Violets	.75
Chrysanthemums, fancy	15.00
" common	6.00@12.00
Smilax	12.00@15.00
Asparagus	50.00

GEORGE A. SUTHERLAND,
SUCCESSOR TO
PEGK & SUTHERLAND,
Successors to WM. J. STEWART,
CUT FLOWERS
and Florists' Supplies.
WHOLESALE.
67 Bromfield St., BOSTON, MASS.

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
WHOLESALE DEALERS IN AND SHIPPERS OF
CHOICE FLOWERS.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST,
32 West 30th Street, NEW YORK.
Roses Shipped to all points. Price list on application.

JOHN YOUNG,
Commission Dealer in
CUT FLOWERS.
WHOLESALE.
53 WEST 30TH ST., NEW YORK.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS,
51 W. 30th St., NEW YORK.

JAMES HART,
WHOLESALE FLORIST,
117 W. 30TH ST., NEW YORK.
The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHRS,
WHOLESALE
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.
Established 1879.

MILLANG BROS.,
Wholesale Florists,
17 WEST 28TH STREET,
NEW YORK.
BRANCH: Cut Flower Exchange, 408 E. 34th Street.

MICHAEL A. HART,
Wholesale AND Commission Florist
113 WEST 30TH STREET,
NEW YORK.
THE FINEST ROSES AND CARNATIONS.
Branch, at Cut Flower Exchange, 408 E. 34th St.

Edward C. Horan,
34 W. 29th Street, NEW YORK,
WHOLESALE FLORIST.
Careful Shipping to all parts of the country.
Price list on application.

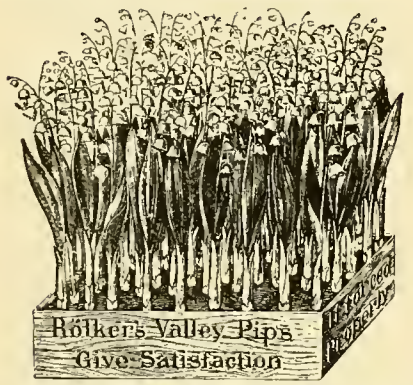
WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St., BOSTON, MASS.

Toronto.

"Mum" is the word in this city just now, and in spite of its being still three weeks to the show the excitement is getting feverish. There are some fine blooms to be seen about at the different growers' now, and there are lots more fine ones coming on. From the present outlook the show promises to be the best on record. Already several entries have been received from "the other side."

The presence of the Earl of Aberdeen, Governor General of Canada, in the city this week has enlivened business a good deal for the time. Receptions and dinner parties have been the order of the day. The Governor having kissed the Blarney Stone at the World's Fair, has put everybody in a good humor.

Several of the boys are talking of sending some chrysanthemum blooms to the great show at Chicago. It is to be hoped that their talk may develop into actions, so that Canada may be represented at least. E.



BEST GERMAN FORCING PIPS

Price: $9 the 1,000,
$20 the box of 2,500,

Less ten per cent. for prompt cash.

August Rölker & Sons
New York, P. O. Station E.

HULSEBOSCH BROS.,
BULB AND PLANT GROWERS,
OVERVEEN, near Haarlem, HOLLAND.

	Per 100	1000
Lilium Harrisii, 4 to 5-inch in circ.	$1.75	$16.00
" " 5 to 7-inch in circ.	2.50	20.00
" " 7 to 9-inch in circ	4.75	42.00
Roman Hyacinths, top roots	3.00	24.00
" " selected	2.25	21.00
" " regular size	2.00	19.00
Italian, blush white Roman, selected	2.50	21.00
Freesia refracta alba	.75	5.00
Narcissus totus albus	.70	6.50
" " " grandiflorum	1.25	10.00
" Chinensis (Sacred Lily), extra	5.50	50.00
Single Tulips, mixed, gardening	.75	6.00
Double " "	.90	7.00
Single " " extra fine.	.85	7.50
Double " " extra fine.	1.00	8.00
Single garden hyacinths, mixed.	2.25	18.00
Double " "	2.50	22.50
Single forcing " "	2.50	21.00
Double " " "	3.00	25.00

Single and double named Hyacinths, Tulips, Crocus, etc., etc., at low rates.

A. HULSEBOSCH,
P. O. Box 3118. Warehouse, 58 West Street,
NEW YORK CITY.

DO YOU KNOW . .
THAT YOU CAN GET
20 CANE STAKES FOR 1 CENT
A foot in length by simply using a sharp saw on a bundle of our best.
BRACKENRIDGE & CO.,
304 W. Madison St., BALTIMORE, MD.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

FALL BULBS, PALMS, ETC.

CHINESE NARCISSUS, genuine imported, ready, per 100 $5.50.
LILIUM AURATUM, genuine imported, ready, per 100 $7.00 and $9.00.
CALLAS, fine, medium sized bulbs, per 100, $5.00.
ROSE C. SOUPERT, 2½-inch, fine stuff, per 100 $3.50; 3½-inch, per 100 $8 00.
LATANIAS, 4-inch stuff, grown cold, well rooted, 3 to 5 character leaves, ready for 5-inch pots, per dozen, $4 00; per 100, $30.00.
PHŒNIX RECLINATA, 5-inch, good value at doz. $5.00.
GERANIUMS, 2½-inch, named sorts, per 100 $4.00. Our selection, per 100 $3.00.
CHRYSANTHEMUM, cut blooms ready.
PANSY PLANTS, very fine, per 1000, from seed bed, $5.00.
BOUQUET GREEN now in stock, (order early), per 100 lbs. $5.50.

Vaughan's Seed Store,
26 Barclay St., NEW YORK. 148 W. Washington St., CHICAGO.

DOES IT PAY?
to wait till the last moment.
NO! Then order your
Bouquet Green, Cut Ferns, Sphagnum Moss, Xmas Trees, Holly, Festooning, and Xmas Green of all kinds. ▲ ▲ ▲ ▲
And do it early. Write for prices—low as the lowest. A 1 goods, and the only place in the WORLD where you can ALWAYS get them.
H. E. HARTFORD, 18 Chapman Place, BOSTON.
Mention American Florist.

BOUQUET GREEN, HOLLY.
We are headquarters on these, and can make Bottom Prices on **single cases, tons** or **carload lots.** Please send us a list of your wants to figure on.

EVERGREEN WREATHING.
Well Wound, made out of strictly prime stock.
Medium Heavy Grade.....$3.50 per 100 yards; $30 00 per 1000 yards
Extra Heavy Grade..... 5.00 " " 45.00 " "

W. W. BARNARD & CO.
6 & 8 N. Clark St., CHICAGO.
Mention American Florist.

CHOICE SWEET PEAS.
Being the largest growers of the above in the world the trade are invited to send a list of their requirements and secure low prices for Fall delivery.
SHERWOOD HALL NURSERY CO.
Menlo Park and San Francisco, Cal.

G. J. MOFFATT,
Manufacturer of
PAPER BAGS AND ENVELOPES
Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN, CONN.

Mushroom Spawn.
New importation in from England, 10 lbs. for $1.20; 100 lbs. for $8.00.
W. W. Barnard & Co.
6 and 8 N. Clark Street, CHICAGO.

Bulbs & Plants.
FOR CATALOGUES, ADDRESS
C. H. JOOSTEN,
IMPORTER,
3 COENTIES SLIP, NEW YORK.
Mention American Florist.

TRY **DREER'S GARDEN SEEDS,**
Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
HENRY A. DREER,
Philadelphia, Pa.

WE SELL MUSHROOM SPAWN,
LILIUM HARRISII AND DUTCH BULBS.
Special Low Prices to Florists & Dealers.
WEEBER & DON,
Seed Merchants and Growers,
114 Chambers Street, NEW YORK.
Mention American Florist.

The Grand
CHRYSANTHEMUM AND FLOWER SHOW
AND
KINDRED TRADES EXPOSITION,
Under the Auspices of
The New York Florists' Club,
Will be held at the
GRAND CENTRAL PALACE, IN THE N. Y. Industrial Building,
43rd & 44th Streets, Lexington Avenue and Grand Central Depot,
NOVEMBER 6 TO 12 INCLUSIVE.
$6,500 In Premiums. $6,500
AND NUMEROUS SPECIAL PRIZES TO BE AWARDED.

For schedule and full particulars apply to

JOHN YOUNG, Sec'y, 53 West 30th Street, NEW YORK CITY.

or to HENRY McCROWE, Mgr., N. Y. Industrial Building, NEW YORK CITY.

FIELD-GROWN
CARNATIONS
MRS. FISHER, MRS. CARNEGIE,

and a general line of other standard sorts and new varieties. Fine, healthy plants, $5.00 to $7.00 per hundred.

CASH WITH ORDER.

FRED. BURKI,
Allegheny Co. BELLEVUE, PA.

40,000 Carnations.
FIELD-GROWN FREE FROM RUST. Per 100
ALL SOLD EXCEPT

1000 Grace Wilder	$ 5.00
1000 Portia	5.00
500 Tidal Wave	5.00
1000 Orange Blossom	4 00
3000 Hinze's White	4.00

Also extra fine strain of Pansies. Cold frame size.....per 1000 $5.00;

CASH WITH ORDER.

Address GEO. B. WHITEHEAD,
Lock Box 116. Greens Farms, Conn.

Silver Spray.
We have a surplus of fine, strong, field-grown plants of Silver Spray Carnations which we will sell at $6.00 per hundred.

Peter Reinberg,
51 Wabash Ave., CHICAGO.

Please mention the American Florist every time you write any of the advertisers on this page.

Field-Grown Carnation Plants.
We still have a few thousand extra fine healthy plants of the following varieties:
Portia, Garfield, Mrs. F. Mangold, Rosalind, Mrs. Carnegie.
PRICE, $5.00 PER 100.

ROSES. Bon Silene, Safrano, 4-inch pots . . . $10 00 per 100
Bon Silene, Safrano, Mermet, Perle, 3-in. pots, 7.00 per 100

J. L. DILLON, Bloomsburg, Pa.

FIELD-GROWN
CARNATIONS

2000 Daybreak	per 100	$10.00
500 Mangold	"	5.00
500 Harrison	"	5.00
5000 Hinze's	"	5.00
1000 Garfield	"	5.00

VIOLETS. 5,000 Marie Louise, per 100, $5.00. 10 per cent. discount for cash with order.

NATHAN SMITH & SON,
167 W. Maumee St., Adrian, Mich.

IT COSTS NO MORE TO
GROW GOOD CARNATIONS
THAN TO GROW POOR ONES.

We have a good stock of field-grown Carnations of all the best varieties. Send for price list.

Geo. Hancock,
GRAND HAVEN, MICH.

CARNATIONS
Strong, healthy, field-grown plants.

PORTIA	$ 6 00	per 100
LIZZIE McGOWAN	6 00	"
TIDAL WAVE	6 00	"
FRED. DORNER	7 00	"
GARFIELD	7 00	"
AURORA	$ 00	"

N. S. GRIFFITH, Independence, Mo.

All Florists,
and particularly those who visit the Philadelphia Show, Nov. 7th to 11th, are cordially invited to come to Kennett, and see **Ophelia** and **Sweetbrier** in bloom.

Trains Leave Broad Street Station, Philadelphia, 7:17 and 11:12 a. m.; 2:53, 4:32 and 6:23 p. m.

EDW. SWAYNE,
CARNATIONIST,
Kennett Square, Pa.

Mention American Florist

Carnations.
Only a few field-grown plants remaining. Good plants and good kinds.

C. J. PENNOCK,
THE PINES. KENNETT SQUARE, Chesler Co., PA.

CARNATIONS.
We have 2000 extra large plants for sale, Hector and Mrs. Fisher; the lot for $80 00 cash. Also 500 mixed plants, good varieties, $3.50 per 100.

W. C. BRYFOGLE & BRO., Bloomsburg, Pa.

DENVER, COL.—The Florists Society will hold their chrysanthemum show November 15-18. E. A. Wood will act as judge. A fine exhibit is expected, as the premiums are liberal.

TECOMA SMITHII is a new hybrid recently exhibited in England, the result of a cross between T. capensis and T. velutina. It has showy terminal cymes of yellow flowers tinged with brownish red.

DO YOU WANT a list of the leading cemetery superintendents? You will find such a list in our new trade directory and reference book.

WHEN writing our advertisers please use one of your printed business letter heads or enclose your business card.

Rooted Cuttings

COLEUS, 10 sorts, **60c. per 100**
BY MAIL.

SAMPLE DOZEN, without names, mailed for 10 cts.

S. O. STREBY,
Lock Box 77,
UPPER SANDUSKY, OHIO.

Cyclamen.

	Per 100	Per 1000
C. Persicum, 4-inch pots	$12.00	
C. Giganteum, 4-inch pots	18.00	

All showing flowers, and in good condition.

Evergreen Hedging Plants.

Euonymus Jap., 10 to 15 in.	6.00	50.00
" Golden, " "	10.00	
Evergreen Thorn (Cratægus Pyracantha), 12 to 18 inches	8.00	75.00

ANDREW L. BLACK,
415 E. Chase St., **BALTIMORE, MD.**

CYCLAMEN persicum giganteum. 3 inch pots $6.00 per 100
PANSIES, Mammoth Strain, 75 cts. per 100 $5.00 per 1000.
CARNATIONS, Dorner's Seedlings, $15 per 100
Daybreak $8.00 to $10.00 per 100
McGowau, Puritan, Wilder, and others, $8.00 per 100. Second size $6.00 per 100
Correspondence solicited.
Address **J. G. Burrow,**
FISHKILL, N. Y.

Double White Primulas.

$6.00 and $8.00 per 100.

CASH WITH ORDER.

S. TAPLIN,
962 FORT ST., W, DETROIT, MICH.

Pteris tremula.

Three Thousand strong plants, in 2-inch pots, at $3.00 per hundred.

ART FLORAL CO.,
3911 Cottage Grove Ave., **CHICAGO.**

Phœnix rupicola.

This useful and beautiful Date Palm in **EXTRA FINE PLANTS,** growing in from 7 to 10-inch pots, from $3.50 to $7.50 each, according to size.

EDWIN LONSDALE, Wyndmoor,
STATION "G," PHILADELPHIA.
(Chestnut Hill P. O.)

PANSIES.

THE PLANTS are getting very good this cool weather and are just the size for planting your frames. **Samples free.**

THE STRAIN is as good as I can make it—there is none better, may be none as good. A trial is the best evidence. Price, 75 cts. per 100; $3.00 per 500, delivery free, or $5.00 per 1000, you to pay the delivery.

GERANIUMS, Rooted Cuttings, from outdoor plants, all first-class varieties and good bedders. Price, in mixture $10.00 per 1000, in separate colors $12.00 per 1000; 50 cts. per 100 extra by the 100. Cash with the order or C. O. D.

L. B. 496. ALBERT M. HERR, LANCASTER, PA.

ASPARAGUS PLUMOSUS NANUS, good plants, from 4-inch pots $20 per 100
ASPIDISTRA, variegated. A few fine plants, 5 and 6-inch pots $4 per dozen
CLIVIA, from fine new European varieties, young plants, 4-inch pots $2 per dozen
EUCHARIS GRANDIFLORA, bulbs 5 to 6 in. circ., with healthy leaves. $3 per dozen
EULALIA UNIVITTATA. . . . $2 per 100; $15 per 1000
ARUNDO DONAX, variegated, strong roots, $2 per dozen. $15 per 100
IRIS GERMANICA, a fiue pure white sort, perfectly hardy $10 per 100
PAEONIES, double white aud double pink, two of the best, mixed $12 per 100

Any of the above will be sent on receipt of price with order.

ALEX. SCOTT,
Balto. Co., Lauraville, Md.
Mention American Florist

PALMS.

150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

Address **GEORGE WITTBOLD,**
1708 N. Halsted St., CHICAGO.

You Will all Want

The New Yellow Coleus GOLDEN CROWN,
As it takes all other yellows down;
And will soon be all the go,
Because so very easy to grow.

There is nothing **Pale** or **Weak** about it. You **can't afford** to run without it; $3.00 per doz. Orders booked now for delivery November 1st, or as soon as ready. Or Gibson's beautiful scented Hybrid Pansies, 2000 seeds $1.00. Or the finest Double Fringed Petunia (Dreer's Strain), hybridized by hand, 1000 seeds $1 50. Snow Crest Daisy, $5.00 per 100. Other specialties later. Or extra large mixed Freesia Bulbs, $1.00 per 100; 2nd size 50 cts. and small bulbs 25 cts. per 100. Cash with order please.

Address **J. C. GIBSON, Woodbury, N. J.**
Mention American Florist.

VIOLETS.

1000 Marie Louise, 3-in. pot-grown, $3.50 per 100. A few thousand frame-grown, healthy strong plants, at $2.50 por 100, $22.00 per 1000.

Swanley White and Single Blue. Plants at $2.25 per 100. Ready now. Cash with order.

ADDRESS **M. TRITSCHLER,**
NASHVILLE, TENN.

SEND for Catalogue of



JAPAN BULBS, SEEDS and SHRUBS, ARAUCARIAS, TREE FERNS, AUSTRALIAN PALM SEEDS, CALIFORIA BULBS and SEEDS to

H. H. BERGER & CO.,
Established 1878. SAN FRANCISCO, CAL.

500,000 PANSIES

The Jennings Strain of large flowering and Fancy Pausies can be had in any quantity wanted up to Jan. 1st. They are the leading strain to-day, more being sold than any other in the market. Plants are field-grown and are very fine and stocky. Large, medium or small, one price 60 cts. 100 by mail; by express 1000 $5, 5000 $20, 10,000 $35, and plenty of extra plants gratis to help pay express. Yellow and white in separate colors if desired, same price. Florists try this strain of pansies. There is money in it. Only small plants by mail.

PANSY SEED—Pure white, yellow, or mixed, $1.00 per packet of 2500 seeds.

4,000 fine field-grown CARNATIONS, sold cheap to clean out. Send for prices.

ADDRESS **E. B. JENNINGS,**
WHOLESALE PANSY GROWER,
Lock box 254. SOUTHPORT, CONN.
When writing mention the AMERICAN FLORIST.

Best German Pansies.

From seed bench; strong plants in 50 sorts, 75 cents per 100; $5.00 per 1000.

JOHN P. TONNER,
45 Lake St., CHICAGO, ILL.
Greenhouses at Mont Clare.
Orders received in English, German and Danish.

PANSIES.

Best mixture of German bedding varieties now ready, per 1000 $5.00; per 100 60c.
We have also separate colors, ready in two weeks.

BRAUER & RICHTER,
McCONNELSVILLE, OHIO.
Mention American Florist.

SUPERB PANSIES.

My "Rainbow Mixture"
is a combination of the very best strains in existence, and is sure to give satisfaction. Young plants 65 cents per 100 by mail; $5.00 per 1000 by express. Cash with order or C. O. D.

GEORGE CREIGHTON, Poughkeepsie, N. Y.

ASPARAGUS PLUMOSUS NANUS.

Well established, 4-inch pot plants, $20 per 100.

JOSEPH KIFT,
Chester Co., WEST CHESTER, PA.

CLEMATIS.

Large flowering, colors in variety, double aud single, strong bloomiug plants. Plenty of Jackmanni and Henryi, best purple and white, $3.00 per dozen; $20.00 per 100. Send for list.

CYCLAMEN persicum splendens, blooming bulbs, $8.00 per 100.
Snowflake Daisy, double white, $1.00 per 100.
Longfellow Daisy, double red, $1.00 per 100.

F. A. BALLER, Bloomington, Ill.

HOME GROWN OXALIS BULBS.

OXALIS BOWIEI.		OXALIS LUTEA.	
No. 1	$2.00 per 100	No. 1	$2.00 per 100
No. 2	1.25 "	No. 2	1.25 "
No. 3	.75 "	No. 3	.75 "

No. 1 are VERY LARGE, far superior to imported.

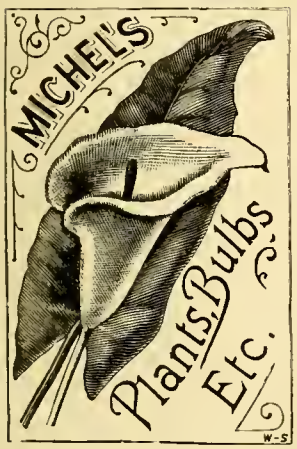
C. THOMPSON ADAMS, WEST MEDWAY, MASS.
Meution Americau Florist.

Roman Hyacinths, early, white skin. We offer from a late bargain purchase, in fine quality and sound, so-called 12 to 15 cm. size by the original case of 2000, at rate of $17 per 1000, net; so-called 13 to 15 cm. size by the original case of 1500, at rate $20 per 1000, net. **Other bulbs,** see our special list.

Azalea Indica, fine plants, now on the way from Ghent; we offer **in original cases** of **fifty plants** assorted in the best market sorts, including Deutsche Perle, Mme. van der Cruysen, etc., etc., in two sizes: **the first** or about 10 to 12 in. diam. of crowns for $20 net the case; the second 12 to 14 in. diam. of crowns for $30 net the case of fifty.

Fenster Pappe, the new German substitute for glass on frames. For detail see previous advertisements. We furnish **original Rolls of about 110 yards for $9.00 net cash. Trial Rolls, enough to cover four sashes for $1.00 cash;** these latter will travel by express for little cost, weighing below 10 lbs. Southern growers should not fail to try these; they will find this a most useful article that has come to stay.

August Rölker & Sons,
136 & 138 W. 24th St., P. O. Station E. **New York.**



Write for Wholesale List.
MICHEL PLANT AND BULB CO.,
ST. LOUIS, MO.

Siebrecht & Wadley,
ROSE HILL NURSERIES,
NEW ROCHELLE, N. Y.
Palms,
ORCHIDS
Roses,
and New Plants.
FRESH DRACAENA CANES NOW READY.

ORCHIDS.
The Finest Stock in the World.
SANDER'S,
ST. ALBANS,
ENGLAND.
Thirty minutes from London.
Our Mr. A Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street. New York City.

When writing to any of the advertisers on this page please mention the American Florist.

CANNA "KOENIGIN CHARLOTTE," Novelty of 1893. **THE FINEST VARIETY GAINED UP TO THIS DAY.** Musa-like foliage, enormous flower spikes, blooms of perfect form, *velvety grenada blood red, regularly bordered three lines broad, with the brightest canary yellow.*



It is surely the most constant and effective ever-blooming Canna, *unrivaled as winter bloomer, and it surpasses immensely the best older sorts like Mme. Crozy, etc. Highest awards* at the exhibitions at London, Lubeck, Leipzig, Liege. Price for strong plants: **$2.50 each; $25.00 a dozen, net cash.** Fine colored plate on demand.

WILHELM PFITZER, Nurseryman, **STUTTGART,** Germany.

Auction Sale of Plants at the World's Fair

OF THE GERMAN AND FRENCH DEPT.

200 big Rhododendrons.
3000 Dwarf H. P. and Tea Roses, best varieties.
1000 Azalea indica, full of buds, healthy plants.
200 Conifers and Azalea mollis, Kalmias.

Will be sold in small lots on NOVEMBER 9th at 10 o'clock in the morning, Horticultural Building.



Mention American Florist.

THE "LOCKLAND"
Sash Bars ✳ ✳ ✳
ARE ALWAYS SATISFACTORY.

This cut represents our improved Clipper Bar for Butted Glass roof—putty to be used under glass only.

GUTTER MATERIAL, RIDGES, SASH, ETC.
The finest CLEAR CYPRESS used.
Write for circulars and estimates. . . .

LOCKLAND LUMBER CO.
. Lockland, O.

Mention American Florist.

HOW TO GROW CUT FLOWERS.

A PRACTICAL TREATISE ON
THE CULTIVATION OF THE ROSE,
And Other Flowering Plants for **Cut Flowers,** sent to any address upon receipt of **$2.00.** **M. A. HUNT, Terre Haute, Ind.**

The World's Fair.

The World's Fair resounds with the sound of hammers and saws these days, as the exhibitors begin, like the Midway Plaisance Arabs, to silently steal away. The great tree ferns are being packed, under the superintendence of Mr. Bennett, for their trip to Schenley Park, and all the exhibitors are doing their best to diminish their surplus. Ontario is moving, taking with them a lot of fine plants but little the worse for their summer quarters, and which were certainly a model of good care and cleanliness during the entire season. Unfortunately a good many fine plants have suffered severely, and they look as if they wanted to be moved at once to a good hospital. The big building will soon look much dismantled until the chrysanthemums fill up the spaces. Many of the exhibitors are very anxious to get rid of their stuff, though good prices are the rule.

Over on the island most of the herbaceous stuff has been sold, the millionaire Pullman being a large buyer. The foreign exhibitors have sold a good deal of their stuff by private contract, though some of it is still to be sold at auction. Those who have been there for so many months are now glad to get away, and they all seem disposed to pull up stakes as quickly as possible; the fact that the weather may change to inclemency any day makes this very desirable.

Some portion of the horticultural display, including plants given to the city, will be kept at the park all winter. It is likely that there will be a good many changes among the staff in charge.

H. BAYERSDORFER & CO.,
WHOLESALE
FLORISTS' SUPPLIES ONLY,
56 N. 4th Street,
PHILADELPHIA, PA.
Our new Catalogue is now out, free upon application.

MARSCHUETZ & CO.,
Florists' Supplies,
23 & 25 N. 4th St., PHILADELPHIA, PA.
Send for Catalogue.

MEDAL AT WORLD'S FAIR.
ERNST KAUFMANN & CO.
FLORISTS' SUPPLIES,
113 N 4th Street, PHILADELPHIA, PA.

HUNTINGTON SEED CO.
Florists' : Supplies,
66 E. WASHINGTON ST.,
INDIANAPOLIS, IND.
Standard Flower Pots, Oried Grasses, Fancy Baskets, Metal Designs. Trade Catalogue mailed free.

— OUR —
SASH LIFTER AND HINGES
will do the work and cost you less than any other. Send your name and address and we will mail you description and price.
BAY STATE HARDWARE CO.
272 Freeport Street, BOSTON, MASS.

Please mention the AMERICAN FLORIST every time you write to an advertiser.

"Standard" Flower Pots.
As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address
The Whilldin Pottery Company,
BRANCH WAREHOUSES: 713, 715, 717 & 719 Wharton St., Philadelphia, Pa.
Randolph Ave. and Union St., Jersey City, N. J.
Jackson Ave. and Pearson St., Long Island City, L. I.

STANDARD FLOWER POTS
Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.
A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.
We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.
Send for price list and samples and we know you will give us an order.
SYRACUSE POTTERY CO. OFFICE: 403 North Salina Street, SYRACUSE, N. Y.

STANDARD FLOWER POTS.
OLD RELIABLE MAKE OF
ELVERSON, SHERWOOD & BARKER.
Write for Catalogue and Price List.
PITTSBURGH CLAY MFG. CO. New Brighton, Pa.

STANDARD FLOWER POTS
Our new **Pottery,** new **Machinery,** the very **best Clay** in the **Country,** and our new **Patent Kilns,** all combined, make the **best Standard Pot in the market.** Send for price list.
PARMENTER MF'G COMPANY,
GEORGE MESSINGER, Manager. East Brookfield, Mass.

D. C. SCHOFIELD & CO.,
New Brighton, Pa.,
are in their new factory, manufacturing, this month, six times as many "STANDARD" FLOWER POTS as they made last season, in a month.
☞ WRITE FOR PRICES.

Association "Flora"
BOSKOOP, HOLLAND
NURSERIES.
Roses, Clematis, Shrubs, Azaleas, Palms, Herbaceous Plants, Bulbs, Etc.
Catalogue on Application.
P. OUWERKERK,
206 Cambridge Ave., JERSEY CITY, N. J.

For Sale.
My stock (20 shares) in Probst Bros. Floral Co. For particulars, write
SAMUEL MURRAY,
1017 Broadway, KANSAS CITY, MO.

D. H. ROBERTS,
159 & 161 South Fifth Ave., New York.
NATURAL GAS MADE GLASS,
for Rose Houses, Conservatories, etc., etc.
Look at our World's Fair Exhibit in Horticultural Building.

Ice Boxes
Made specially FOR FLORISTS.
Outside casings, ash, panelled ends, antique finish, walls lined with nonconducting material.
WITH GLASS FRONTS.
Two sizes carried in stock. For circular and prices address
JOHN P. TONNER,
In Cut Flower Exchange, 45 Lake St., CHICAGO.

To Florists.
Use our GREEN LINEN for SMILAX; no fading; no breaking. . . .
D. B. SHERMAN & SON, Buffalo, N. Y.

FLORAL DESIGNS
The Cut Flower Worker's Friend. Fine book of 160 pages. Send $3.50 for it, to
J. HORACE McFARLAND, Harrisburg, Pa.

TO TAKE PLACE OF WIND MILLS

HOT AIR PUMPING ENGINES

A Windmill

Is unreliable because it depends upon the elements for its power; hydraulic rams also depend upon favorable conditions and waste as much water as they secure. Steam pumps require skill and hand pumps demand labor and time. The

DE LAMATER-RIDER OR DE LAMATER-ERICSSON Hot-Air Pumping Engines

are especially designed for pumping water, and from shallow streams or any kind of well. They are simple, safe and reliable, require no steam and have no valves. They require very little heat to operate them, and can be arranged for any kind of fuel.

Send for illustrated catalogue to

THE DE LAMATER IRON WORKS,
87 South Fifth Av.,
NEW YORK, N. Y.

THE CHAMPION Automatic Ventilator.

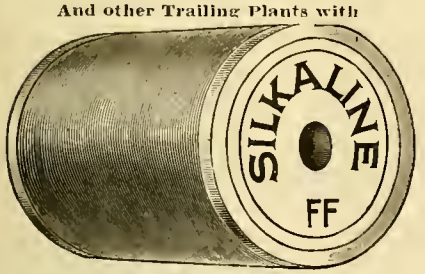
The cheapest, easiest to operate, and by far the best machine in the market. Don't buy a Ventilator until you have seen my illustrated descriptive circular, which will be sent you free, giving prices, etc. Also Champion Soil Pulverizer and Sifter.

Address, Box 114. E. E. WOLF, SPRINGFIELD, O.

Send orders for . . .
CLEAR CYPRESS
Greenhouse Material
from bottom of gutter up.
Correspondence solicited. Estimates cheerfully furnished.
LYMAN FELHEIM, ERIE, PA.

EVANS' IMPROVED
CHALLENGE VENTILATING APPARATUS
Write for Illustrated Catalogue.
QUAKER CITY MACHINE WORKS. Richmond, Ind.

STRING SMILAX
And other Trailing Plants with



JOHN C. MEYER & CO.,
289 Devonshire St., BOSTON, MASS.
For sale by all leading Florists' Supply Houses.

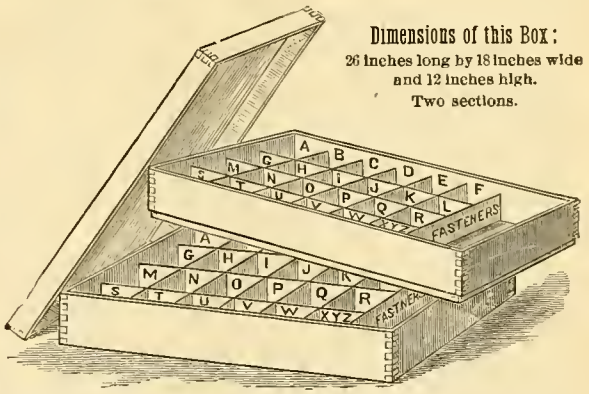
STANDARD FLOWER POTS.
Price List.

2 -inch,	Per 1000 $3.25	7-inch,	Per 100 $ 3.50
2¼-inch,	" 3.50	8-inch,	" 5.00
2½-inch,	" 4.00	9-inch,	" 7.50
3 -inch,	" 5.00	10-inch,	" 10.00
3½-inch,	" 7.25	11-inch,	" 15 00
4 -inch,	" 9.00	12-inch,	" 20.00
5 -inch,	" 13.80	14-inch,	" 40.00
6 -inch,	" 22.00	16-inch,	" 75.00

Terms cash, f. o. b. Address
HILFINGER BROS. POTTERY, Fort Edward, N. Y.
August Rolker & Sons, 136 & 138 W. 24th St., New York City, Agents for New York and vicinity.

Mention the American Florist when writing to advertisers on this page.





Dimensions of this Box:
26 inches long by 18 inches wide and 12 inches high.
Two sections.

With an order for 500 letters, we furnish a box made of wood nicely stained and varnished, such as is represented in the cut.

BOSTON FLORIST LETTER CO.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1½-in and 2-in. 2.00 per 100. Patent fastener with each letter.

OUR NEW SCRIPT LETTER, $4.00 per 100.

N. F. McCARTHY, Treas. & Mangr. | Address 13 Green St., Boston, Mass.

Address all correspondence to 1 Music Hall Place.

We have a new FASTENER which we consider a decided success. Any customers having old style fasteners which they wish to exchange, can do so without additional cost by writing us.

AGENTS:
Marschuetz & Co., 25 N. 4th St., Phila., Pa.
A. Rolker & Sons, New York.
F. E. McAllister, 22 Dey St., New York.
A. D. Perry & Co., 33 Warren St, Syracuse, New York.
Ernst Kaufmann & Co., 113 N. 4th St., Phila.
H. Bayersdorfer & Co., Philadelphia, Pa.
A. C. Kendal, 115 Ontario St., Cleveland, O.
J. A. Simmers, Toronto, Ont. Agent for Canada.
E. H. Hunt, 79 Lake St., Chicago, Ill.
Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.
H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O
T. W. Wood & Sons, 6th and Marshall Sts. Richmond, Va.
Jas. Vick's Sons, Rochester, N. Y.
C. A. Kuehn, 1122 Pine St., St. Louis, Mo.
D. B. Long, Buffalo, New York.
C. F. Huntington & Co, Indianapolis, Ind.
Z. De Forest Ely & Co., 1024 Market St., Philadelphia, Pa.
Portland Seed Co., 171 2d St., Portland, Ore.

These Letters are handled by all the Wholesalers in Boston.

WARNING.

A party in Williamsport, Pa., named Chas. E. Montgomery, is making and offering for sale letters which are an infringement upon our patent, and are much inferior to those manufactured by us. We have notified them of suits unless they desist at once. Buy no letters except through our authorized agents.

BOSTON FLORIST LETTER CO., 1 Music Hall Place, Boston, Mass.

EVERGREEN CUT FERNS


FANCY. DAGGER.

ESPECIALLY FOR FLORISTS' USE.
$1.25 per Thousand Ferns.



IN LOTS OF 5,000 AND UPWARDS, $1.00 PER 1000. Ferns furnished the year round. Special attention given to supplying the Wholesale Trade.

BOUQUET GREEN For Holiday Trade, $2.00 per barrel (thirty pounds); or $6.00 per hundred pounds. Special reduction in express rates.

SPHAGNUM MOSS a specialty. Long, clean fibre, dry or green, $1 per barrel, or six bbls. for $5. Write for terms on large lots. Terms cash, or goods will be sent C. O. D.

CHRISTMAS TREES. American White Spruce, much better shape and color than the Blue Spruce, also Balsam Fir from 3 to 30 feet high. Special attention to supplying carload lots. Write for price list and terms.

L. B. BRAGUE, Hinsdale, Mass.

City Stand During the Holidays: 47th St and Lexington Ave., NEW YORK.

Headquarters for Water Lilies.
SEED, TUBERS AND PLANTS.

Embracing all the newest and choicest in cultivation. Awarded Six Medals at World's Fair—the highest number of awards for aquatics. Illustrated descriptive Catalogue free on application.

WM. TRICKER, Dongan Hills, N. Y.

CATALOGUE PRINTING. ELECTROTYPING.

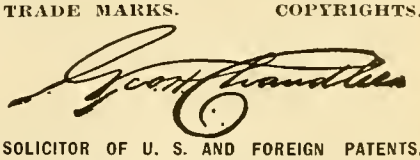
Done with expert ability for Florists, Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.
. . . HARRISBURG, PA.



Kills Mildew and Fungus Growth. What does? GRAPE DUST. Sold by Seedsmen.

TRADE MARKS. COPYRIGHTS.



SOLICITOR OF U. S. AND FOREIGN PATENTS.
Atlantic Building, Washington, D. C.
(Send sketch or model for free examination as to patentability.
Mention American Florist.

E. G. HILL & CO.,
Wholesale Florists
RICHMOND, INDIANA.

The Toronto Show.

The Toronto Gardeners' and Florists' Association has decided, at the suggestion of one of the most eminent chrysanthemum growers in America, to give certificates of merit to seedling chrysanthemums not yet in commerce that may be judged worthy of dissemination, and a piece of silver (probably a cup), value about $25, will be given to the best one exhibited.

Owing to the late date of the show it is thought that this will give a welcome opportunity to many growers to exhibit blooms of seedlings which otherwise would not be seen by the trade and public generally before being disseminated, as most of the shows in the large cities are being held during the first week in November. A thoroughly competent expert on chrysanthemums has been secured to act as judge. It is confidently expected that the local show of plants and bloom will be exceptionally fine this year, and it is certain, owing to the exertions of an influential honorary member of the Association, to be patronized by the elite of the city and suburbs.

ELMIRA, N. Y.—Mr. Grove P. Rawson had a very attractive exhibition of chrysanthemums and other flowers at his greenhouses October 28 to November 4, which was viewed by a large number of visitors.

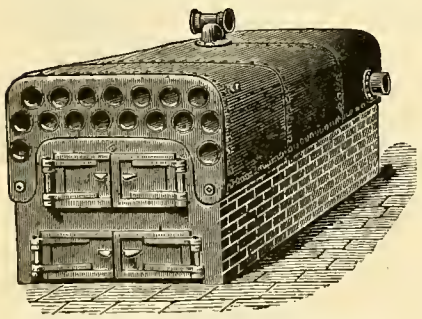
NEWPORT, R. I.—The dates for the coming chrysanthemum show of the Newport Horticultural Society have been changed to November 6, 7 and 8.

ESTABLISHED 1854.

DEVINE'S BOILER WORKS.

THE FLAT TOP TYPE

Wrought Iron Hot Water Boilers

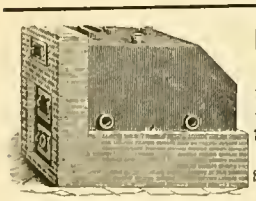


Capacity from 350 to 10,000 feet of four-inch pipe.
SEND FOR NEW LIST.

FRANK DAN BLISH, Att'y,

OFFICE, 189 STATE STREET.
WORKS, 56th & WALLACE STREETS.
CHICAGO.

Mention American Florist.



GREEN-HOUSE HEATING.
MYERS & CO.
1518 & 1520 S. 9th St.,
PHILADELPHIA.
Send for catalogue and price list.

THE GREAT **ANTIPEST.**
For particulars, see next week.
R. W. CARMAN, GEN'L AGT.,
291 Amity Street, FLUSHING, Queens Co., N. Y.



VENTILATING APPLIANCE

helps himself and those who help him in his labors, and is therefore doubly blessed. Send for price and description.

J. D. CARMODY, Evansville, Ind.

Or call and see the man and machine at his greenhouse office, located on the lawn west front of Horticultural Building, World's Fair grounds, Chicago, Ill.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO,

NATURAL GAS MADE GLASS

FOR GREENHOUSES.

Write for latest prices.

FRENCH GLASS For CONSERVATORIES, ROSE HOUSES, Etc. Etc.

VANHORNE, GRIFFEN & CO.,

Importers of PLATE and WINDOW GLASS. Manufacturers of BENT GLASS and FRENCH MIRRORS.

131-133-135-137 FRANKLIN STREET, NEW YORK.

Note—Imported Glass is used in the best grade of Greenhouse building

CUTS!

WOOD ENGRAVING,
PHOTO-ENGRAVING,
WAX ENGRAVING,
ZINC ETCHING,
HALF-TONE,
DESIGNING.

MANZ & CO.,
183 Monroe Street, CHICAGO. ENGRAVERS.

GLASS

which is absolutely perfect for modern greenhouse construction.

ROCK BOTTOM PRICES.

Send for Estimate. Satisfaction Guaranteed

REED GLASS CO.

65 WARREN STREET and
46, 48, & 50 COLLEGE PLACE,
—NEW YORK CITY.—

J. N. STRUCK & BRO.

Manufacturers of

• CYPRESS •

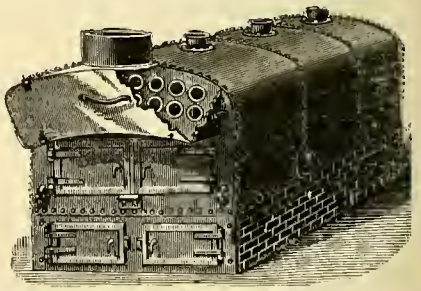
Greenhouse Material,

LOUISVILLE, KY.

SEND FOR A COPY
—OF OUR—
TRADE DIRECTORY

AMERICAN FLORIST CO., CHICAGO

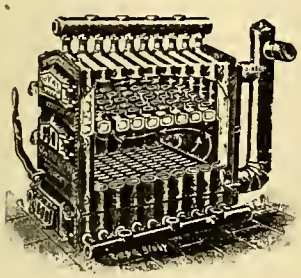
KROESCHELL BROS.
IMPROVED
Greenhouse × Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around front, sides and back). Write for information

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

ROYAL HEATERS
TRADE MARK
UTICA, N.Y.



HOT WATER, STEAM.

The right kind of Boilers for Greenhouses.

HART & CROUSE,

UTICA, N. Y.

Increase Your Business

by fostering an interest in plants and flowers among the people in your vicinity. You can best do this by getting subscribers to

GARDENING . . .

which tells people how to get the most satisfaction out of their gardens, and stimulates them to enlarge and extend their gardening operations.

$1.00 A YEAR is the subscription price of this paper, which is issued twice a month, is handsomely and truthfully illustrated, is thoroughly practical, absolutely free from wind and gush and grinds no axes for anyone.

SPECIAL LOW RATE to florists who will act as agents. We want an agent in every city and town in America. Write for terms now to

THE GARDENING CO.
Monon Building, CHICAGO.

HAIL LOCK THE DOOR BEFORE THE HORSE IS STOLEN. DO IT NOW.
JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

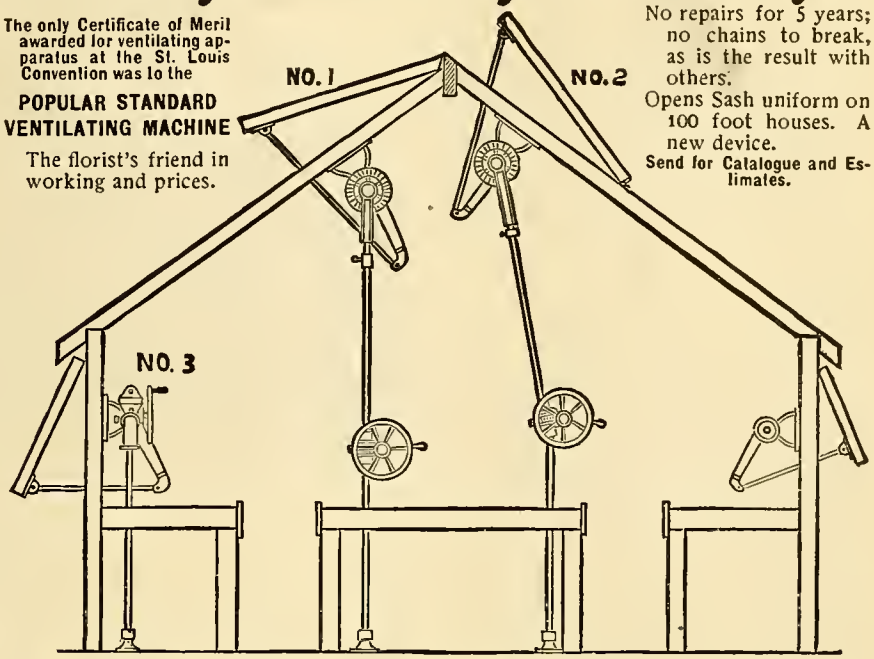
When writing to any of the advertisers on this page please mention the American Florist.

Victory! Victory! Victory!

The only Certificate of Merit awarded for ventilating apparatus at the St. Louis Convention was to the

POPULAR STANDARD VENTILATING MACHINE

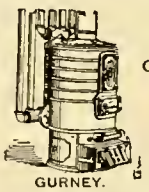
The florist's friend in working and prices.



No repairs for 5 years; no chains to break, as is the result with others.
Opens Sash uniform on 100 foot houses. A new device.
Send for Catalogue and Estimates.

E. HIPPARD, YOUNGSTOWN, OHIO.

Gurney


GURNEY.

Best for Greenhouses.

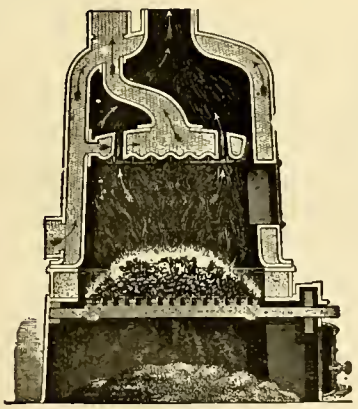
Our illustrated book "How best to Heat our Homes" gives the reason why. We send it free.

THE BEST IS CHEAPEST.

HOT WATER HEATERS AND RADIATORS FOR HEATING Dwellings, Public Buildings, Etc. BY HOT WATER CIRCULATION.

Gurney Hot Water Heater Co.
HEAD OFFICE:
163 Franklin St., Boston, Mass.
BRANCH OFFICE:
59 Wabash Ave., Chicago, Ill.
SELLING AGENCIES:
Johnson & Co., 71 John St., New York.
J. C. F. Trachsel, 246 Arch St, Philadelphia.


DOUBLE CROWN.



JOHN A. SCOLLAY,

74 & 76 MYRTLE AVE.,
BROOKLYN, N. Y.

GREENHOUSE HEATING

— AND —

Ventilating Apparatus.

Patentee and Manufacturer of

HOT WATER BOILERS,
GREENHOUSE PIPE,
PIPE FITTINGS,
VALVES, TANKS, ETC.

☞ Estimates of cost given, and Illustrated Catalogue furnished on application.

ESTABLISHED 1866.

FLORISTS WIRE DESIGNS

MANUFACTURED BY

N. STEFFENS

335 EAST 21ST ST. NEW YORK.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

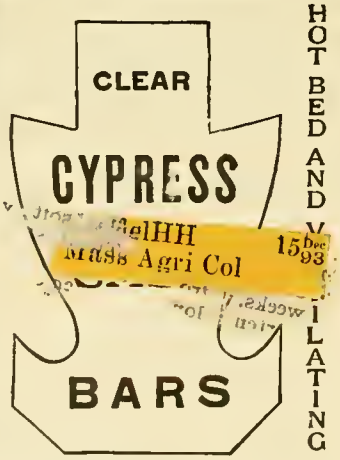
You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

Index to Advertisers.

Adams C T.....290
Adv. Rates, etc.....286
Art Floral Co.....290
Baller F A.....290
Barnard W W & Co.....288
Bayersdorfer H & Co.....292
Bay State Hdw Co.....292
Berger H H & Co.....290
Black Andrew L.....290
Bonsall Jos E & Son.....287
Boston Letter Co.....293
Brackenridge & Co.....288
Brague L B.....293
Brauer & Richter.....290
Brown & Canfield.....285
Bryfogle W C & Bro.....289
Burki Fred.....289
Burns & Rayner.....287
Burrow J G.....286 290
Burton John.....285
Carman R W.....294
Carmody J D.....294
Chandlee Geo H.....293
Corbrey T J.....286
Creighton Geo.....290
Deamud J B & Co.....286
De Lamater Iron Wks.293
Devine's Boiler Wks.....294
Dillon J L.....289
Doyle John A.....285
Dreer H A.....285 288
Elliott W H.....286
Ellison Wm.....287
Ely Z De Forest & Co.....284
Felheim Lyman.....293
Forstermann L.....284
Gardening Co The.....295
Gibson J C.....290
Goodyear Rubber Store.....296
Griffith N S.....289
Gurney Heater Co.....295
Hall Ass'n.....295
Hammond Benj.....293
Hancock Geo.....289
Hart James.....287
Hart Michael A.....287
Hart & Crouse.....295
Hartford H E.....288
Herendeen Mfg Co.....296
Herr Albert M.....290
Hews A H & Co.....292
Hilfinger Bros.....293
Hill E G & Co.....293
Hippard E.....295
Hitchings & Co.....296
Hooker H M Co.....294
Heran Edw C.....287
Hotchkiss F L.....284
Hulsebosch Bros.....288
Hunt E H.....287
Hunt M A.....285 291
Hunter Frank D.....287
Huntington Seed Co.....292
Irvine John Co.....284
Jennings E B.....290
Joosten C H.....288
Jordan Floral Co.....285
Kaufmann Ernst & Co.292
Kelsey Harlan P.....284
Kennicott Bros.....287
Kift Joseph.....290
Kroeschell Bros.....294
Kuehn C A.....286
Kuhl Geo A.....286
Lake Geneva Floral Co284
Larkin Isaac.....284
La Rocbe & Stahl.....286
Lockland Lumber Co.....291
Long Dan'l B.....286
Lonsdale Edwin.....290
Lord & Burnham Co.....296
McCarthy N F & Co.....287
McFarland J H.....292
McFarland J H Co.....293
Manz J & Co.....294
Marschuetz & Co.....292
Memphis Floral Co.....285
Meyer John C & Co.....293
Michel Plant & Bulb Co.....291
Millang Bros.....287
Moffatt G J.....288
Moninger Jno C.....296
Murray S.....292
Myers & Co.....294
Nace R E.....284
Niles Centre Floral Co.287
Ouwerkerk P.....292
Parmenter Mfg Co.....292
Peck & Sutherland.....287
Pennock C J.....289
Pennock Sam'l S.....286
Pfitzer Wilhelm.....291
Pierson F R Co.....286
Pittsburg Clay Mfg Co.292
Quaker City Mach Co.293
Randall A L.....287
Reed Glass Co.....294
Reinberg Peter.....289
Roberts J H.....292
Roehrs Theo.....287
Rolker A & Sons.....288 291
Sander & Co.....291
Saul John.....284
Schiller Ludwig.....291
Schofield D C & Co.....292
Scollay John A.....295
Scott Alex.....290
Sheridan W F.....287
Sherman D B & Son.....292
Sherwood Hall Nur Co.288
Siebrecht & Wadley.....291
Situations, wants.....284
Smith Nathan & Son.....289
Steffens N.....295
Storrs & Harrison Co.....285
Streby S O.....290
Struck J N & Bro.....294
Sunderbruch H L.....287
Swayne Edward.....289
Syracuse Pottery Co.....292
Taplin S.....290
Tonner John P.....290 292
Tricker Wm.....295
Tritschler M.....290
Van Horne Griffen & Co.....294
Vaughan J C.....284 288
Weathered's Sons T W.296
Weeber & Don.....288
Welch Bros.....287
Whilldin Pot Co.....292
Whitehead Geo B.....289
Wight W P.....296
Wittbold Geo.....290
Wolf E E.....293
Wood Bros.....285
Young John.....287 289
Young Thos Jr.....286

Do YOU WANT a list of the leading park superintendents of America? You will find such a list in our trade directory and reference book.

CYPRESS GREEN HOUSE MATERIAL



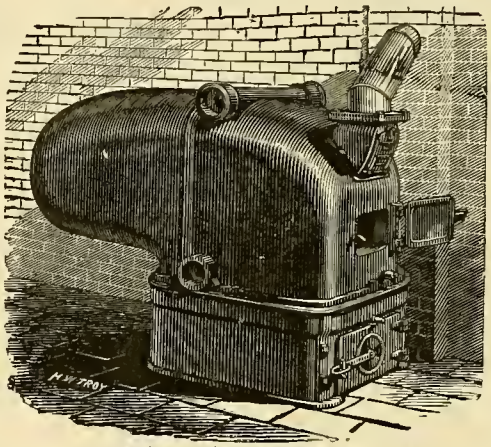
HOT BED AND VENTILATING SASH

JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

GREENHOUSE HEATING AND VENTILATING

Horticultural Architecture and Building.



HITCHINGS & CO.

Established 1844.

233 Mercer St., New York.

FIVE PATTERNS OF BOILERS.

NINETEEN SIZES.

Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc., of Iron Frame Construction, Erected complete, or the Structural Iron Work shipped ready for erection.

Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Top.

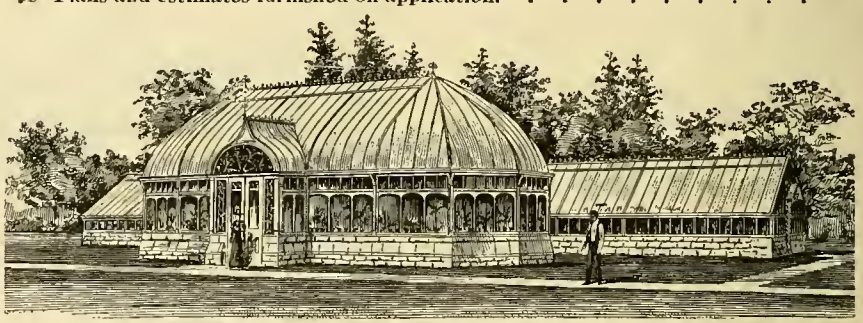
SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.

LORD & BURNHAM CO.

Horticultural Architects and Builders,

STEAM AND HOT WATER HEATING ENGINEERS.

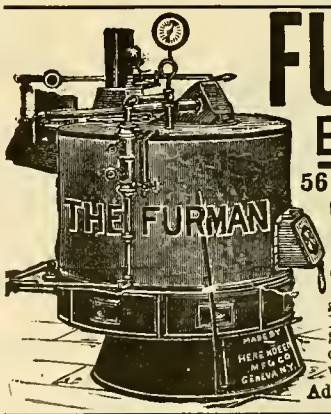
☞ Plans and estimates furnished on application.



Front view of a portion of our exhibit at the World's Fair.

. . . SEND FOUR CENTS POSTAGE FOR ILLUSTRATED CATALOGUE. . . .

LORD & BURNHAM CO., Irvington-on-Hudson, N. Y.



FURMAN BOILERS

Economical—Substantial—Safe.

56 STYLES AND SIZES—BURNS HARD OR SOFT COAL.

Modern Hot-Water Heating

These Boilers have a high reputation for Staunchness, Durability and Safety, and are GREAT COAL SAVERS. Minimum Friction and Maximum Velocity only obtained by VERTICAL WATER CIRCULATION. Send for new 150-page book giving full particulars and a great deal of valuable information on modern Heating and Ventilation, with plans and tables for correct hot-water work. Mailed free.

Address HERENDEEN MFG. CO., 26 Vine Street, GENEVA, N. Y.

THOS. W. WEATHERED'S SONS,

INCORPORATED.

Horticultural Architects and Hot Water Engineers

Send for Catalogue, enclosing 4 cents in stamps.

No. 244 Canal St., NEW YORK CITY.

THE PERFECT DRAINAGE

BENCH TILE

For circulars, etc., address

W. P. Wight, Upland Green Houses,

Send your business card. MADISON, N. J.

FLORISTS' HOSE,

Made by E. W. Holt, member of the Society of American Florists.

Goodyear Rubber Store,

2 W. 14TH ST. NEW YORK.

THE AMERICAN FLORIST

A WEEKLY JOURNAL FOR THE TRADE

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. IX. World's Columbian (EXTRA EDITION, NOVEMBER 4, 1893.) Chrysanthemum Show. No. 283X



ART INSTITUTE, LAKE FRONT, FOOT OF ADAMS STREET, CHICAGO.

THE AMERICAN FLORIST
EXTRA EDITION.

Copyright 1893, by American Florist Company. Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

322 Dearborn Street, Chicago.

THE unexpected and complete falling off of attendance at the World's Fair, and the rapid dismantling of all exhibits, the laying of railroad tracks and removal of lights, carried dismay to the hearts of the board of managers of the exhibition, and at a special meeting held at the Union League Club late Wednesday night it was resolved to abandon, if possible, Jackson Park and make the display at the Art Institute on the Lake Front, where the world's congresses were held; the proper authorities were seen early Thursday morning, the change agreed upon and the Art Building secured. Friends of the show are enthusiastic over the change, and a fitting floral celebration of the grandest exposition the world has ever known seems assured.

Chrysanthemum Show.

CHANGE OF PROGRAM.

On account of the great change of things at the World's Fair Grounds, the removal of exhibits, and general upsetting of affairs, it has been decided to hold the Chrysanthemum Show in the Art Institute, Lake Front. It will be under the auspices of the World's Fair Commission as previously arranged.

The exhibition will be open from November 4 to 11, inclusive, commencing Saturday afternoon at 2 o'clock.

The premiums offered will be the same as the schedule already issued except the special attractions for Saturday, November 11. These premiums are classes 134 to 162 inclusive, and will be offered for FRIDAY, NOVEMBER 10, *instead* of *Saturday*, and must be ready for the judges *by 11 a. m.* of that day.

PARTIAL LIST OF EXHIBITORS:

The list of entries at time of writing (Thursday) is necessarily incomplete. A partial list, however, gives some hint as to the possibilities of the show. In the cut flower sections there are numerous entries, including several in different classes from Nathan Smith & Son, Adrian, Mich.; E. G. Hill & Co., Richmond, Ind.; J. A. Peterson, Cincinnati; Aug. S. Swanson, St. Paul, Minn.; W. N. Rudd, Mt. Greenwood, Ill.; C. A. Samelson, Chicago; John Curwen, Jr., Villa Nova, Pa.; Geo. W. Miller, Hinsdale, Ill.; O. P. Bassett, Hinsdale, Ill.; J. W. Fox, South Hamilton, Ont.; Otto Hanson, Mont Clare, Ill., and others.

In the plant classes Nathan Smith & Sons, E. G. Hill, O. P. Bassett, H. W. Rieman, Indianapolis, F. Nagel, Minneapolis. Theo. Bock, Hamilton, Ohio, Wm. Scott, Buffalo, J. C. Vaughan, Chicago, and others have promised exhibits.

Seedlings will be watched with a great deal of interest; we are promised some wonderful advances. Among those who have made entries are Nathan Smith & Son, Aug. S. Swanson, H. W. Rieman, the Art Floral Co., and Fred S. Walz. Judging from previous shows, and also from the efforts made by the specialists in the line of improvement in form and size, we shall see something remarkable in this line.

The table decorations always prove one of the sterling attractions, and we are

pleased to see an encouraging number of entries, and these from firms whose abilities will make the competition very close. In this class we find the Art Floral Co., Chicago, Aug. S. Swanson, St. Paul, C. A. Samuelson, Chicago, O. J. Friedman, Chicago, and J. H. Small & Sons of Washington, D. C. It is understood that Mr. Small is coming here in person to arrange the decoration.

Individual exhibits, not for competition, are promised by the Art Floral Co. E. G. Uihlein and E. Wienhoeber, all of Chicago. At the present time only one amateur had entered, F. M. Baker, Adrian, Mich., though it is expected that the Columbian medals will prove an attraction to the amateur exhibitors.

Items at the Show.

TEN car loads of plants are already heard from.

THE IOWA BAND, 35 pieces, has been engaged for this occasion.

PROSPECTS are good for a fine show of largest specimen plants and standards.

THE Columbian medals will be awarded at the new location exactly as originally arranged.

N. SMITH & SON arrived early Friday morning with nearly one thousand specimen blooms.

TRADE VISITORS should always leave their cards with the secretary when entering the hall.

MR. H. A. SIEBRECHT, of New York, reports a good deal of enthusiasm east of Chicago in regard to the World's Fair Chrysanthemum Show.

THE opening of the World's Fair show is too early for many finest blooms. Good additional blooms will come in by Wednesday and Thursday of next week.

SCARCITY of plants and some lack of harmony at New York is reported to affect the prospects of their show. Premiums are, however, large and show should be a good one.

Special Edition Notes.

Poor soil produces earliest flowers.

An incident of the removal of some of the large plants from the Fair was an attachment for terminal station charges of somewhat ancient date. The requisite sum was shortly provided to "lubricate the wheels of evolution."

A western grower reports his trials of this year on the novelties of last season partially as follows:

Golden Wedding, poorly.
Craig-Lippencott, good.
The Queen, good.
Congo, style Mrs. Craig, good.
Mabel Simpkins, fair.
W. G. Newitt, good.

May's set, strong growth, but late with us. Creole is one of the darkest, if not *the* darkest, in commerce.

An Eastern grower says: Mrs. Craig Lippencott, extra good. Harry Balsley, No. 1. Mrs. Sue Price, a good thing. Tuxedo, a good orange. Niveus, very fine. Ermenilda, a beauty.

THIS Special Edition of the FLORIST should reach many of our readers before Sunday and we trust will excite sufficient interest to bring every reader to Chicago the coming week. Director Craig promises a genuine World's Fair Chrysanthemum Show, while the locality, the entry book and the enthusiasm of those engaged indicates an occasion worthy of the closing of the grand Columbian Exposition.

CHAS. E. MEEHAN and bride are visiting the World's Fair.

THE resignation of Chief John Thorpe of the Bureau of Floriculture at the Columbian Exposition and its acceptance was the surprise of last week. Chief of Horticulture J. M. Samuels now takes full charge of both departments; Mr. H. H. Hindshaw has temporary charge of the Department of Floriculture, and all plant and other exhibits are being rapidly removed from the entire building. The relation of Uncle John to floriculture, horticulture and the World's Fair generally this long, hot and busy summer is "another story" too long for this special issue.



IVORY.

Chicago.

A banquet will be given at the rooms of the Chicago Cut Flower Exchange by the Florist Club, on Thursday evening, November 9. A large number of visitors from outside cities are expected to be present and a very enjoyable time is anticipated.

Mr. G. L. Grant is making a flying trip to New York, Boston and other eastern cities.

At the annual meeting of the stockholders of the Chicago Cut Flower Exchange, October 27, the following board of directors was elected for three years: W. N. Rudd, J. B. Deamud, J. F. Kidwell, Geo. Klehm, Samuel J. Pearce; for two years, E. Wienhoeber, J. T. Anthony, Chas. Naslund; for one year, P. J. Hauswirth, A. Harrer, Geo. Harrer. A director's meeting will be held Friday, November 3, for the election of officers and the transaction of other business. All the tables in the Cut Flowers Exchange are rented and the corporation is now in a prosperous condition.

Mr. A. G. Prince has been sick with typhoid fever for the past week and does not seem to improve any.

The market seems to be overloaded with chrysanthemums at present. Roses are also very plentiful. Beauties scarce.

J. B. D.

AMERICAN GARDENING reaches us now as semi-monthly in *another* new cover and form. We do not discover the name of the new editor.

SIOUX CITY, IOWA, is making a strong effort for a good chrysanthemum show.

Scale of Points for Flower Show Judges.

ED. AM. FLORIST:—Will you please give me some information as to *points* in judging chrysanthemums, both cut bloom and plants? We are to hold our show next week, so would kindly ask you to let me know at once. C. P. M.

Kansas.

This is one of the questions that comes before us periodically, and there is no doubt that some absolute and generally accepted rules would be welcomed by many harassed judges. Some months since we endeavored, with the aid of Mr. F. Schuyler Mathews, to formulate some rules for judgment of floral designs. Mr. Mathew's article on this subject was published in our issue of June 1, but it may not be out of place to give here a brief resume of the ideas advanced. Taking 100 as perfection, Mr. Mathews thinks the relative values in a design may be placed as follows:

1. Adaptability to purpose	35%
2. Color harmony	25%
3. Composition	25%
4. Excellence of material	15%
	100

In this case naturally excellence of material ranks less than good taste and harmony. In judging plants and flowers, however, we must choose another standpoint, and for this purpose we requested an opinion from some of our well known specialists, who are often called upon to act as judges, and who naturally go about this work with a settled plan.

For cut flowers and plants the following scale was suggested by a well posted Philadelphia grower:

Size	25%
Form	25%
Color	20%
General effect	20%
Foliage	10%
	100

This, it will be seen, covers all the general points of a new flower, and gives a good idea of the estimation of different qualities. It will be noted that size and form present equal values, color and effect five points less, while foliage is least of all. But in judging of general effect, naturally habit, constitution, etc., would come into consideration, while in size and form judgment would, to a certain extent, be decided by comparison, especially in the case of new varieties; where it is simply a case of decision among existing varieties, the judge's duty is a simpler matter. There may be some differences of opinion as to relative values, but we believe that the scale of points here given will be generally accepted, and our correspondent may find them of service in his case. With some such guide, it is comparatively easy for two or three judges to arrive at a fair general average, and there is more possibility of giving entire satisfaction with their awards.

DO YOU WANT an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our trade directory and reference book.

PLEASE WRITE on your printed letter head when addressing our advertisers. If you have no printed letter head, then enclose your business card or bill head.

THE AMERICAN FLORIST and *Gardening* together to one address for $1.75. Send orders to the American Florist Co.



DIRECTOR ROBERT CRAIG.

Out at the Fair.

At time of writing the Fair is in a most demoralized condition. It seems as if, once the strain of the summer removed, everything goes to pieces. The scene in the Horticultural Building suggests Cinderella after the clock struck twelve. The great mound is dissolving as by magic; yawning gaps here and there show a grewsome skeleton of boards, and the few remaining plants hang their heads in dejection. The concessionaire's stands are so many sheeted ghosts, and the florist's place knows him no more; it is a confusion of dead plants, Mexican grass seeds, Columbian cacti and empty pots. The young woman with souvenir spoons and the young man who sold pure Californian orange cider made from vinegar and molasses are departed, and their place is taken by teamsters, trucks and blue coated guards, who tell would-be visitors that the building is closed. No need of that—one look and the curiosity seeker flees.

The last of the New York and Pennsylvania exhibits were being removed. The cream of these exhibits go to Schenley Park to keep company with the great ferns from New South Wales. James Dean, J. I. Donlan, A. W. Bennett and others were busy with these plants; the huge specimen Todea barbara, which Mr. Geo. Nicholson considered the finest specimen ever seen in cultivation was being rapidly wrapped, and the big bird's-nest ferns were swathed in wrappings ready for the cars. Removing the tree ferns was a terrific piece of work. To begin with, the artificial mounds in which they were planted was removed; the plants had been left in the tubs in which they were originally planted. The transfer to the cars was managed as quickly as possible, as the weather was turning much colder. The collection of cacti shown by Mrs. Anna B. Nickels, which received high awards, is purchased by Schenley Park and is being shipped. By the end of the week there will be very little in the way of horticultural exhibits remaining at Jackson Park.

THE show will open at 2 p.m. Saturday. Strenuous efforts are being made to have everything in order by that time. In any case it will be in condition for sightseers.

THE Iowa State Band, which was listened to with much enthusiasm at the Fair during the summer, is engaged for the entire term of the show. On Sunday there will be a concert of sacred and classical music from one to five in the afternoon.



Concerning Funeral Designs.

In the last regular issue of the FLORIST mention was made of the elaborate and costly display of floral tributes in honor of Mr. Harrison, mayor of Chicago. It is remarkable that in this age of endeavor for true artistic art in floral effects that there could be noted so comparatively few designs of real artistic merit. That the display as a whole made a most imposing effect can not be denied, and the material used for the most part was undoubtedly superior to much of the stuff used in this class of work; in fact the florist in most cases was not tied down to any price whatever, his instructions were to produce something superior to anything ever seen on a like occasion, regardless of expense, and yet in most instances the same old beaten path was followed. Broken columns, eight of them by actual count, gates ajar, shields and all the stereotyped designs of bygone ages. What a relief to turn our attention to a simple laurel wreath resting on the casket, or a graceful arrangement of dainty lily of the valley in yonder group. But few, very few, of these tasteful and simple pieces do we notice. It is but justice to the Chicago florists to note that most of the work turned out by them, if we do take exceptions to the designs, were made up as well as things of this kind can well be done. The whole display, sixty-three pieces in all, was afterwards arranged in a group and photographed, after which the general public was admitted to view them. B.

Chrysanthemum Shows.

Chicago, Nov. 4-11—World's Fair Chrysanthemum Show. W. C. Egan, Sec'y, Horticultural Building, World's Fair.

Newport, R. I., Nov. 6-8—Newport Horticultural Society. John J. Butler, Sec'y, P. O. box 313.

Baltimore, Nov. 6-11—Gardeners' Club of Baltimore. Wm. McRoberts, Jr., Sec'y, 304 W. Madison St.

New York, Nov. 6-13—New York Florists' Club. John Young, Sec'y, 53 West 30th St. Henry McCrowe, manager of exhibition, Grand Central Palace.

Milwaukee, Wis., Nov. 7-9—Milwaukee Florist Club. A. Klokner, Sec'y, 219 Grand Ave.

Hartford, Conn., Nov. 7-9—Hartford County Hort. Society. Edw. S. Young, Sec'y, 60 Oak St.

Boston, Nov. 7-10—Massachusetts Horticultural Society. Robert Manning, Sec'y, 101 Tremont Street.

St. Louis, Nov. 7-10—St. Louis Florists' Club. E. Schray, Sec'y, 4101 Pennsylvania Ave.

Indianapolis, Ind., Nov. 7-11—Society of Indiana Florists. Wm. G. Bertermann, Sec'y, 37 Mass. Avenue.

Wichita, Kans., Nov. 7-10.

Philadelphia, Nov. 7-11—Pennsylvania Horticultural Society. D. D. L. Farson, Sec'y, Broad St.

Worcester, Mass., Nov. 8-9—Worcester County Hort. Society. Edw. W. Lincoln, Sec'y.

Montreal, P. Q., Nov. 8-10—Montreal Gardeners' and Florists' Club. Henry Stocking, Sec'y, 230 St. Denis St.

Providence, R. I., Nov. 8-10—Rhode Island Hort. Society. C. W. Smith, Sec'y, 61 Westminster St.

New Haven, Conn., Nov. 8-10—New Haven Chrysanthemum Club.

Wooster, O., Nov. 8-10—Wooster Floral Club.

Louisville, Ky., Nov. 9-14—Louisville Florists' Club. H. Nanz, Sec'y, 582 Fourth Ave.

Springfield, Mass., Nov. 14-16—Hampden County Hort. Society. Joseph Booth, Sec'y, care of Springfield Institution for Savings.

Washington, Nov. 14-17—Florists' Club of Washington. G. W. Oliver, Sec'y, 1844 8th St., N. W.

Denver, Colo., Nov. 15-18—Denver Florist Club. Lyle C. Waterbury, Sec'y, University Park, Col.

Toronto, Ont., Nov. 21-24—Torouto Gardeners' and Florists' Association. A. H. Ewing, Sec'y, 85 Carlton St

Friends of the Mums.

We embellish this issue with the portraits of many members of the florist's trade largely interested in growing and selling the Queen of Autumn. We shall see many of these familiar faces at this show, both buyers and sellers, and many a variety owing its origin to their efforts. We think the publication of these portraits in our chrysanthemum show extra will be appreciated; they are identified with this popular flower, and are constantly in line with its progress.



E. H. Michel. H. W. Buckbee. Fred. Dorner. J. A. Pettigrew. Wm. K. Harris. John Thorpe.

COLE BROS., Peoria, will hold a chrysanthemum show under auspices of the Peoria charitable institutions Nov. 9-11.

WITH exhibitors from New Orleans to Canada and from Boston to Denver, we certainly have a sufficiently wide geographical range.

IT IS estimated that the quantity of stuff coming from outside points to this show amounts to three train loads. The plants are coming in by carloads, and the quantity of cut flowers is in proportion.

THE handsome and imposing steps, portico and entrance hall of the Art Institute will be decorated with bay trees and chrysanthemum plants. President J. T. Anthony and Mr. J. C. Vaughan will assume the chief part of this decoration.

THE whole of the ground floor on the north side of the Art Institute will be occupied by the exhibits. The plants will be mainly disposed in the halls, while all along one side of the corridors will be the tables for cut flowers, the other side being occupied by seats.

OUR CONDENSED CHRYSANTHEMUM LIST.

Especially Arranged for Flower Show Notes.

The following list contains most of the popular market sorts of chrysanthemums, varieties which we look for as familiar friends at the various shows. A blank space will be found at the right of the names, for the purpose of comment or reference at the show, while space will be found for the insertion, in alphabetical order, of new varieties noted. This list will form a handy reference guide, and it is more than likely that there will be many meritorious additions to be made at this show.

VARIETY.	NOTES.
Abdel Kader. Jap. Dark crimson.	
Alaska. Ref. White.	
Alberic Lunden. Jap. Carmine red.	
Albert Delaux. Jap. Silvery rose and white.	
Ami Hoste. Inc. Yellow brown, striped crimson.	
Anna M. Weybrecht. Ref. White.	
Annie Salter. Ref. Golden yellow.	
Avalanche. Jap. White.	
Aristine Anderson. Jap. Pink.	
Arthur Payne. Jap. Reddish brown, reverse yellow.	
Aug. Swanson. Jap. Pale yellow.	

A.—Other kinds.

CHRYSANTHEMUMS.

Novelties and Standard Varieties.

We are **ORIGINATORS** and **INTRODUCERS**

of more new and valuable varieties of Chrysanthemums than any other firm Novelties which we recommend will be found to possess real merit.

BOOK YOUR NAME NOW FOR OUR REGULAR LIST.

NATHAN SMITH & SON,

167 West Maumee Street,

ADRIAN, MICH.











E. Nagel.
Wm. R. Smith.
R. Asmus.



W. H. Elliott.
G. P. Rawson.
J. C. Rennison.

Diana. Inc. White.
Domination. Jap. White, sometimes quite pink.
Dr. Callandreau. Lemon yellow.

D.—Other kinds.

E la Prass. Ref. Delicate salmon.
Ed. Hatch. Pink, early.
Edouard Audiguier. Jap. Crimson maroon.
Edwin Molyneux. Jap. Rich crimson, golden reverse.
E. G. Hill. Jap. Bright yellow, striped red.
Elaine. Ref. White.
Eldorado. Jap. Deep yellow.
Elmer D. Smith. Jap. Cardinal red.
Emily Dorner. Jap. Orange yellow, touched crimson.
Ernst Asmus. Ref. Chrome yellow, mixed red.
Etoile de Lyon. Jap. White, striped rose purple or violet.
Evaleen Stein. Jap. Greenish white.

E.—Other kinds.

Fabian de Mediana. Anem. Deep lilac, blush disc.
Firenzi. Jap. Bright yellow.
Fleur Parfaite. Jap. Fine satin rose.
Flora Hill. Jap. White.
Frank Thomson. Jap. Pearly pink.
Frank Wilcox. Ref. Amber.

F.—Other kinds.

KENNICOTT BROS. COMPANY.

INCORPORATED 1893. CAPITAL STOCK $10,000.

FLINT KENNICOTT, President. FRED W. H. SUNDMACHER, Sec'y and Treas

WHOLESALE
CUT FLOWERS,

34 & 36 Randolph St., CHICAGO.

LARGEST WHOLESALE CUT FLOWER ESTABLISHMENT IN THE WEST. THE VERY BEST FACILITIES FOR HANDLING CUT FLOWERS SO AS TO REACH CUSTOMERS IN PERFECT CONDITION.

WIRE WORK A SPECIALTY.

FLORISTS VISITING CHICAGO **Are cordially invited to call at our establishment while in the city.**








R. J. Mendenhall. Wm. G. Bertermann. Jas. Dean.

J. N. May. Edw. Lonsdale. M. A. Hunt.

B. Cousancat. Jap. Reddish purple and yellow.
Beacon. Jap. White.
Beauty of Stoke. Inc. Light amber.
Ben Hur. Jap. Pink.
Benoit Rozain. Jap Bright satin rose.
Bertier Rendatler. Jap. Orange, shaded red and yellow.
Beverley. Inc. White.
Black Beauty. Jap. Crimson maroon.
Bohemia. Jap. Red.
Bolero. Ref. Chrome yellow.
Boule de Neige. Ref. White.
Bouquet Fait. Soft rose pink.
Bras Rouge. Jap. Dark yellow, crimson reverse.
Bride. Jap. White.

B.—Other kinds.

Carrie Denny. Inc, Clear amber.
Ceres. Jap. White tinged rose.
Charity. Ref. Rose carmine.
Charley Sharman. Jap. Deep magenta.
Chevalier Domage. Ref. Deep golden yellow.
Christmas Eve. Jap. Pure white, late.
Citron. Jap. Lemon yellow.
Clara James. White.
Cleopatra. Inc. Rosy blush.
Col. W. B. Smith. Jap. Bronze.
Comte de Germiny. Jap. Nankin yellow, striped crimson.
Condor. Jap. White.
Coquette de Castile. Jap. Blush shaded rose.
Coronet. Jap. Golden yellow.
Cullingfordii. Ref. Brilliant crimson.
Cyclone. Jap. White.

C.—Other kinds.

World's Columbian Chrysanthemum Show

WILL BE HELD AT

ART INSTITUTE, LAKE FRONT,

CHICAGO,

Nov. 4 to 12 inclusive.

40 Columbian Medals. $6,000 in Cash Premiums.

ROBT. CRAIG, Director. W. H. CHADWICK, President.

BOARD OF MANAGERS:

J. A Pettigrew.	J. T. Anthony.	Wm. C. Egan.
Robt. Craig.	James Dean.	E. G. Hill.
O. P. Bassett.	J. C. Vaughan.	G. L. Grant.
	Wm. E. Clark.	

The Florists of America are cordially urged to be present. The entry sheets indicate a grand display in both plants and flowers.











N. F. McCarthy.
S. Henshaw
H. Tong.



J. R. Freeman.
Alfred A. Neuner.
W. F. Dreer.

Gaspard Rozain. Jap. Incurving silvery white, veined violet and carmine.
Geo. W. Childs. Ref. Crimson.
G. F. Moseman. Jap. (Syn. Baronald), Deep crimson, bronze reverse.
Gloriosum. Jap. Light yellow.
Gold. Jap. (Syn. Mrs. Richard Elliott). Deep yellow.
Golden Dragon. Jap. (Syn. Yellow Dragon). Golden yellow.
Golden Gate. Old gold and buff, very early.
Golden John Salter. Inc. Amber.
Gorgeous. Jap. Golden yellow.
G. P. Rawson. Jap. Buff.
Grandiflorum. Jap. (Syn. Mr. Barnes). Bright golden yellow.
G.—Other kinds.

Harry E. Widner. Jap. Yellow.
Harry May. Jap. Bronze.
Harvest Queen. Jap. White.
Henry Cannell (Syn. Mr. H. Cannel). Jap. Golden yellow.
Hero of Magdala. Jap. Blood red, reverse yellow.
H. Waterer. Jap. Yellow, copper center.
H.—Other kinds.

Ivory. Jap. White, early.

J. C. Vaughan. Jap. Crimson.
Jeanne d'Arc. Inc. Blush white, laced violet.
Jeanne Delaux. Ref. (Syns. F. A. Davis, J. Delaux, Japon Fleuri). Dark maroon.
Jessica. Jap. White, early.
Jessie C. Henszy. Pink shading to yellow.
John Salter. Inc. (Syn. Mr. Howe). Cinnamon red, shaded orange.
John Thorpe. Ref. Bright deep lake.
Juvena. Jap. Dark crimson.
J.—Other kinds.

Shall you want

"American Belle."

Next Spring?

IF SO, GET THEM FROM HEADQUARTERS.

JOHN BURTON,

Chestnut Hill, Philadelphia.



C. B. Whitnall. Alex. Waldbart, John Burton.

A. Wiegand. D. D. L. Farson. W. J. Palmer.

Kate Rambo. Jap. White.
Kioto. Jap. Deep yellow.

L' Or du Rhine. Ref. (Syn. Golden Rhine). Clear yellow, striped red.
Lady Slade. Inc. Lilac pink.
Lady Trevor Lawrence. Jap. (Syns. Mme. Beale and Robt. Bottomley). Pure white.
L. Canning. Jap. White.
Lilian B. Bird. Jap. Shrimp pink.
Lily Bates. Jap. Rich pink.
Lizzie Cartledge. Jap. Dark rose, reverse silvery white.
Lord Alcester. Inc. Pale primrose.
Louis Boehmer. Jap. Pink, hairy florets.

L.—Other kinds.

Mabel Ward. Jap. Pink.
Mme. Clemence Audiguier. Jap. Soft pink.
Mme. Ferdinaad Bergman. Jap. White.
Mlle. Anna Delaux. Jap. White, flushed rose purple.
Mlle. Cabral. Anem. (Syn. Mme. Cabrol). Pure white.
Mlle. Lacroix. Jap. (Syn. La Purete).
Manhattan. Jap. Rose lilac.
Marguerite de York. (Syn. Sunflower). Yellow.
Marquise de l'Espine. Inc. Rosy lilac.
Mattie C. Stewart. Ref. Bright golden yellow.
M. E. Nichols. Ref. (Syn. October Beauty). White, streaked pink, salmon center.
Mermaid. Jap. Pink.

THE

Wisconsin Flower Exchange,

WHOLESALE

CUT FLOWER

Commission Dealers

468 MILWAUKEE ST.,

Milwaukee, Wis.

Solicit correspondence with growers of Roses, Carnations, Violets, American Beauties and other stock within shipping distance of Milwaukee, with a view to handling their consignments.

BURPEE'S
SEEDS
PHILADELPHIA.
Wholesale Price List for Florists and Market Gardeners.

J. B. DEAMUD & CO.

Wholesale Cut Flowers.

Chrysanthemums, Valley, and the finest stock of Roses in the market.
All shipping orders are filled from fresh cut stock of our own growing.

LILIUM HARRISII READY NOVEMBER 20.

45 Lake Street, CUT FLOWER EXCHANGE, CHICAGO.

CHRYSANTHEMUMS that have no superior
VALLEY that can't be beat—it is fine.
ROSES, all varieties first-class.
CARNATIONS in variety.
ADIANTUM, ASPARAGUS and all flowers in season.

Send in your orders; I can fill them; and will properly pack and ship on time.

CORBREY & McKELLAR,
WHOLESALE AND COMMISSION FLORISTS,
PHONE, MAIN 4508. 45 Lake St., CHICAGO.



FANCY. DAGGER.

EVERGREEN
CUT FERNS
ESPECIALLY FOR FLORISTS' USE
$1.25 per Thousand Ferns.



IN LOTS OF 5,000 AND UPWARDS, $1.00 PER 1000. Ferns furnished the year round. Special attention given to supplying the Wholesale Trade.
BOUQUET GREEN For Holiday Trade, $2.00 per barrel (thirty pounds); or $6.00 per hundred pounds. Special reduction in express rates.
SPHAGNUM MOSS a specialty. Long, clean fibre, dry or green, $1 per barrel, or six bbls. for $5. Write for terms on large lots. Terms cash, or goods will be sent C. O. D.
CHRISTMAS TREES. American White Spruce, much better shape and color than the Blue Spruce, also Balsam Fir from 3 to 50 feet high. Special attention to supplying carload lots. Write for price list and terms.

L. B. BRAGUE, Hinsdale, Mass.

City Stand During the Holidays: 47th St and Lexington Ave., NEW YORK.








David Allan.
J. H. Taylor.
Thos. Young, Jr.

F. R. Pierson.
John Young.
P. Welch.

E. H. HUNT,

WHOLESALE FLORIST

79 Lake Street, CHICAGO.

		Per 100
Perles, Niphetos, Gontier	$ 2.00@	$ 3.00
Bride, Mermet, La France, Victoria	3.00@	4.00
Testout, Meteor	5.00@	6.00
Am Beauty	10.00@	18.00
Roses, our selection		3.00
Carnations, long	1.00@	1.50
" short	.50@	1.00
Valley	4.00@	5.00
Chrysanthemums, common	2.00@	6.00
" fancy	8.00@	30.00
Smilax	15.00@	18.00
Ferns	per 1000 $2.50,	.50
Adiantum		1.00
Fresh Cycas leaves	$1.00 each.	

Western Agent for the GREAT ANTIPEST.

A. L. RANDALL,

Wholesale Florist,

126 Dearborn St., CHICAGO.

Agent for finest grades Waxed and Tissue Papers.

NILES CENTER FLORAL CO.

Incorporated.

WHOLESALE GROWERS OF

CUT FLOWERS of ALL KINDS

and Dealers in FLORISTS' SUPPLIES.

In Chicago Cut Flower Exchange,

45 Lake St., CHICAGO.

SURPLUS BULBS.

Vistors at this show will find bargains in our stocks at this time. Please call when in the city and see what we can do for you.

VAUGHAN'S SEED STORE,

New York. CHICAGO.

Miss Anna Hartshorn. Jap. Pearl white.
Miss Mary Morgan. Inc. (Syn. Pink Perfection). Light pink.
Miss Mary Weightman. Jap. Chrome yellow.
Miss Mary Wheeler. Jap. Blush and white.
Miss Minnie Wanamaker. Jap. White.
M. Boyer. Jap. Lilac rose.
M. Edouard Andre. Jap. Bright gold, shaded crimson.
M. Louis Langlois. Jap. Salmon yellow.
M. N. Davis. Jap. Deep blood red.
M. Viviand-Morel. Jap. Pale blush, deepening to rose.
Molly Bawn, Jap. White.
Mont Blanc. Jap. White.
Moonlight. Jap. White,
Mountain of Snow. Jap. White.
Mr. Bunn. Inc. Bright golden yellow.
Mr. Geo. Glenny. Inc. Primrose yellow.
Mr. H. Cannell. Jap. Golden yellow.
Mr. Ralph Brocklebank. Jap. Yellow.
Mrs. A. Blanc. Ref. Rich lavender.
Mrs. A. C. Burpee. Jap. Amber and gold.
Mrs. A. J. Drexel. Jap. Lilac pink, sometimes very deep.
Mrs. Alpheus Hardy. Jap. White, hairy florets.
Mrs. Andrew Carnegie. Jap. Crimson.
Mrs. Anthony Weigand. Jap. Rose.
Mrs. A. Waterer. Jap. White, broad petals.
Mrs. Chas. Dissel. Jap. Lavender pink.
Mrs. Chas. Pratt. Anem. White, high center.
Mrs. C. H. Wheeler. Jap. Crimson, old gold reverse.
Mrs. C. H. Clarke. Jap. Purple crimson.
Mrs. Chas. Carey. Jap. White.

NEW CARNATIONS.

Fred. Dorner's Seedlings for 1894.

THE STUART, Brilliant Scarlet.

An exceptionally bright color in a Carnation. This is not a red, but is like that rich, glowing shade of scarlet so often found among Geraniums. Growth very vigorous and strong. Foliage large and deep green. Flower stems very long and strong, carrying the large, finely formed flowers with scarcely any support. Calyx never bursting. Very free; blooming from November to July. Propagation very easy; cuttings rooting in two weeks, besides other varieties which need four to five weeks time.

UNCLE JOHN, Pure White.

An excellent White variety from Silver Spray and Hinze's White in the third generation. It has the grassy appearance of Hinze's White, but with larger blades. Growth very strong and luxuriant. Flower stems long, wiry and very strong. Calyx never bursting. Flowers large, finely formed, delicately fringed, and of the purest white. Its free blooming cannot be surpassed, being far superior to the older varieties from which it originated.

The sale of the flowers from Mr. Dorner's NEW CARNATIONS the past season, at an average of double the price of ordinary varieties, has amply proved that they are undoubtedly the most profitable varieties to grow commercially, as they produce an abundance of the largest and longest stemmed flowers which find a ready sale at all times at paying prices. Mr. Dorner's New Carnations have always been grown free from Rust and other Carnation diseases.

UNCLE JOHN and THE STUART will be distributed on April First, 1894, at the following Prices:

PER 100 AT $10.00; AND PER 1000 $75.00.

FRED. DORNER & SONS,

La Fayette, Ind.



J. L. Dillon. P. O'Mara.
I. Forsterman. Thos. Cartledge.
J. D. Carmody. H. E. Chitty.

Mrs. Cleveland. Jap. White, tubular petals.
Miss Kate Brown. New. Very early white.
Mrs. D. D. L. Farson. Jap. Silvery pink.
Mrs. E. W. Clarke. Jap. Deep carmine.
Mrs. Fottler. Jap. Bright pink.
Mrs. Frank Clinton. Jap. Canary yellow.
Mrs. Frank Thomson. Jap. Lilac pink, silver reverse.
Mrs. Geo. Rundle. Inc. White.
Mrs. Gov. Fifer. Jap. Cream white.
Mrs. Herbert A. Pennock. Jap. Orange yellow.
Mrs. Hicks Arnold. Jap. Rose.
Mrs. Irving Clarke, Jap. Light pink.
Mrs. Isaac C. Price. Jap. (Syn. Mrs. J. C. Price). Golden yellow.
Mrs. J. G. Whilldin. Jap. Light yellow.
Mrs Jessie C. Henszey. Jap. Canary.
Mrs. Jno. Gardiner. Yellow, new.
Mrs. J. N. Gerard. Jap. (Syn. Cornelius Vanderbilt). Silvery rose.
Mrs. Joel Bailey. Jap. White, lemon center.
Mrs. Langtry. Jap. Pure white.
Mrs. L. C. Madeira. Inc. Yellow.
Mrs. Maria Simpson. Jap. Bronze yellow.
Mrs. M. J. Thomas. Jap. Blush white.
Mrs. Oliver Laughton. Inc. Rosy purple, tipped gold.
Mrs. Robt Craig. Inc. White.
Mrs. S. Humphreys. Jap. (Syn. Snowball). White.
Mrs. W. K. Harris. Jap. Golden yellow.
Mrs. Wm. Bowen. Jap. Red, golden reverse.
Mrs. Wm. Hamilton. Jap. White.

M.—Other kinds.

CHRYSANTHEMUMS.

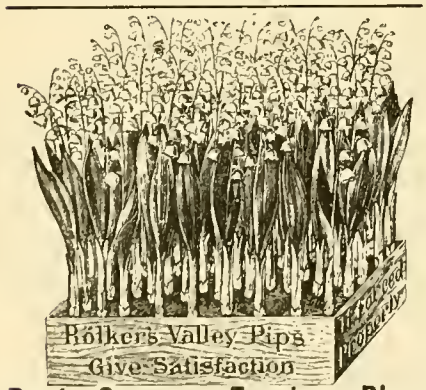
Stock plants of best sorts.

Get a list from our representative at the show.

Splendid stock of The Queen, Louis Childs Madeira, Mrs. Jerome Jones and Mrs. C. D. Avery, 8-inch, at $2.50 doz.

VAUGHAN'S SEED STORE,

26 Barclay St. 146 W. Washington St
NEW YORK. CHICAGO.
Greenhouses: Western Springs.



Best German Forcing Pips.

Price: $9 the 1,000,
$20 the box of 2 500,
Less ten per cent. for prompt cash.

August Rölker & Sons
New York, P. O. Station E.

TULIPS FOR THE MILLION. BY THE

The grandest stock in the United States of this most beautiful flower for bedding or forcing, embracing 25 of a kind at 100 price 250 of a kind at 1000 price.

		Per 100	Per 1000
	Single Early Tulips, mixed, all colors	$1.00	$ 7.50
	" " superfine mixed, all colors	1.25	10.00
	Single Late Tulips, " " "	1.00	7.50
	Single Tulips, Florists' Forcing Mixture	1.50	12.00
	Double " " " "	1.50	12.00
	" Early Tulips, mixed, all colors	1.00	7.50
	" Late " " "	1.50	12.00

SCARLET, RED AND PINK TULIPS.

The letters A, B and C before the name indicates earliness of blooming; those marked A are earliest and bloom together; B blooms next and together, etc. The numeral indicates height in inches.

B 7	Artus, single bright red	$1.25	$ 9.00
B 7	Belle Alliance, single scarlet	1.60	14.00
B 7	Crimson King, single red	1.00	7.50
A 7	Duc von Thol, single scarlet	.75	6.00
A 7	" single crimson	.75	6.00
B 8	Pottebakker, single scarlet, fine	2.00	18.00
A 8	Rembraut, single, manificent scarlet	2.00	18.00
B 8	Vermillion Brilliant, single scarlet, extra	2.50	23.00
A 7	Gloria Solis, double scarlet	1.25	9.00
A 8	Imperator Rubrorum, double scarlet	2.75	25.00
B 7	Rex Rubrorum, double bright scarlet	1.75	16.00

WHITE TULIPS.

C 9	Coleur Ponceau, single white, crimson border	$1.00	$ 7.50
B 6	Cottage Maid, single white, edged with rose	3.25	30.00
A 6	Duc von Thol, " pure	3.00	27.50
B 7	Joost Von Vondel " and cherry red	2.00	17.00
B 7	La Reine (Queen Victoria), single rosy white	1.50	12.00
A 8	Pottebakker, single, pure white	3.00	27.50
B 8	Rosa Mundi Hiykman, single white and rose, fine	2.00	18.00
B 7	Staudard Silver, single crimson and white	1.50	12.00
B 6	La Candeur, double, pure white	1.00	7.50

YELLOW AND VARIEGATED TULIPS.

A 8	Canary Bird, single, clear pure yellow	2.50	22.00
B 7	Chrysolora, single large golden yellow	2.25	21.00
B 9	Duchess de Parma, single brownish red, yellow stripe	1.50	12.00
A 6	Duc von Thol, single red and yellow	1.00	9.00
B 9	Keizer-Kroon, single large red and yellow	2.25	21.00
A 8	Pottebakker, single, pure yellow	2.25	20.00
B 7	Yellow Prince, single yellow, sweet scented	2.50	23.00
L 8	Pœony Gold, double yellow	1.50	13.00
A 7	Tournesol, double pure yellow	2.75	26.00
L 6	Yellow Rose, double pure yellow	1.25	10.00

☞ For other named kinds and rates in 10,000 lots, see this paper Oct. 19.

Z. DE FOREST ELY & CO.,

The Bulb Importers,
11024 MARKET ST., P. O. Box 1176, PHILADELPHIA, PA.



H. A. Siebrecht.
E. D. Smith.
E. A. Wood.
Flint Kennicott.

Ernst Asmus.
E. G. Hill.
Theo. Roehrs.
Alex. Burns.

October Beauty. Pink.
O. P. Bassett. Jap. Crimson.
O.—Other kinds.

Passaic. Jap. White.
Pelican. Jap. Pure white.
Pink Lacroix. Jap. (Syn. Annie Clibran). Pink sport from Mlle. Lacroix.
President Arthur. Jap. Rose.
President Harrison. Jap. Bronzy red.
President Hyde. Ref. Golden yellow, early.
Puritan. Jap. White, flushed lilac.
P.—Other kinds.

Ramona. Jap. Light amber.
Red Dragon. Jap. Orange red.
R. Maitre, Jap. Pink.
Robt. Crawford. Jap. Pink.
Robt. Owen. Ref. Golden yellow, shaded rose and viole
Rohallion. Jap. Rich yellow.
Rosalind. Sing. Bright pink.
Roslyn. Jap. Pink.
R.—Other kinds.

Salvator. Ref. Reddish crimson, early.
Shasta. Jap. White, tubular.
Snowstorm. Jap. White.
Source d' Or. Jap. Orange, gold shading.
Syringa. Jap. Rose lilac.
S.—Other kinds.

ROSE GROWER—16 years' experience, Baltimore and Denver. References. Address J H, care American Florist.

CUT FLOWER WORKER—A competent store man capable of earning $75 a month wants employment. Enquire for J W, care Vaughan's Seed Store.

STOCK PLANTS
— OF —
Chrysanthemums.

ALL THE LEADING SORTS.

List and prices on application.

EDWIN LONSDALE,
Wyndmoor, **PHILADELPHIA.**
STATION H. (Chestnut Hill P. O.)

Green AND Holly.

"Old Christmas' wreath is still as green and red as 'twas an hundred years ago."

Our record for prompt delivery of No. 1 stock is unsurpassed.

VAUGHAN'S SEED STORE,
New York. CHICAGO.

Bouquet Green and Holly.

We are headquarters for first quality stock. Our prices compare most favorably with those of other reliable dealers. Please send us a list of your wants to figure on.

EVERGREEN WREATHING.—Medium heavy grade, $3.50 per 100 yards, $30.00 per 1000 yards; extra heavy grade, $5.00 per 100 yards, $45.00 per 1000 yards.

HOLLY.—The best the season has produced. In well packed cases of 16 cubic feet, per case $5.00. Larger lots lower.

VALLEY PIPS.—Our XXX strain has always given the very best of satisfaction. Trial case of 2500 pips, $21.

LIL. AURATUM.—Sound, healthy Bulbs, 8 to 9 inches, $6.50 per 100. Per case of 250, $5.50 per 100.

TUBEROSE BULBS.—Select stock, strictly pure strain. Ready Dec. 1st.
Dwarf Pearl, $1.25 per 100, $9.00 per 1000.
Fall Double Italian, $1.25 per 100, $9.00 per 1000.

MUSHROOM SPAWN.—New importation of fresh stock in now. Sure to run if properly treated. 10 lbs. $1.20, 100 lbs. $8.00.

W. W. BARNARD & CO.
6 & 8 N. Clark St., CHICAGO.



THE "LOCKLAND" Sash Bars

ARE ALWAYS SATISFACTORY.

This cut represents our improved Clipper Bar for Butted Glass roof—putty to be used under glass only.

GUTTER MATERIAL, RIDGES, SASH, ETC.

The finest CLEAR CYPRESS used.

Write for circulars and estimates. . . .

LOCKLAND LUMBER CO.
Lockland, O.

Mention American Florist.

CHRYSANTHEMUM

Mrs. E. G. Hill.

GREATEST NOVELTY OF RECENT YEARS.

RECEIVED WORLD'S FAIR MEDAL OCT. 16.

EARLINESS, FORM, COLOR AND VIGOR.

Ready [illegible], '94.

Per 100, $25.

Per 1000, $200.

E. G. Hill & Co.

WHOLESALE FLORISTS,

Richmond, Ind.

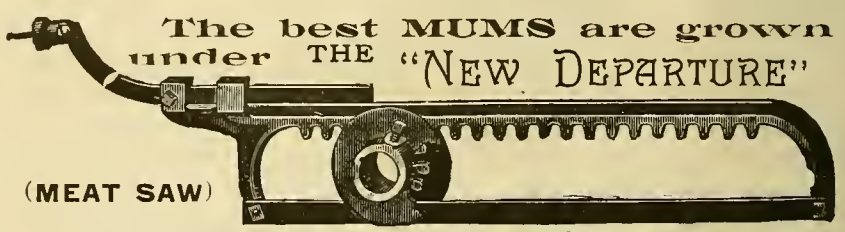
GoodelHH Mass Agri Col 15 Dec 93

T. C. Price. Jap. Strawberry.
Temple de Salomon. Ref. Bright yellow.
The Bride. Jap. White.
Timbale d'Argent. Anem. Pure white.
Tokio. Jap. Red crimson, tipped yellow.
Tuxedo. Ref. Amber.
T.—Other kinds.

V. H. Hallock. Jap. (Syn. Dawn). Rosy pearl.
Violet Rose. Jap. Violet rose.
Viviand-Morel. Ref. Rose, striped white.
V.—Other kinds.

Waban. Jap. Pink.
William Elliott. Ref. Similar to John Thorpe.
William Falconer. Sing. Deep red pink.
William M. Singerly. Jap. Rich dark plum.
W. H. Lincoln. Jap. Deep yellow.
W. K. Harris. Jap. Nankin yellow.
W. W. Coles. Jap. Bright terra cotta.
W.—Other kinds.

Yellow Dragon. Jap. (Syn. Golden Dragon).
Yonitza. Jap. Greenish white, late.
Y.—Other kinds.



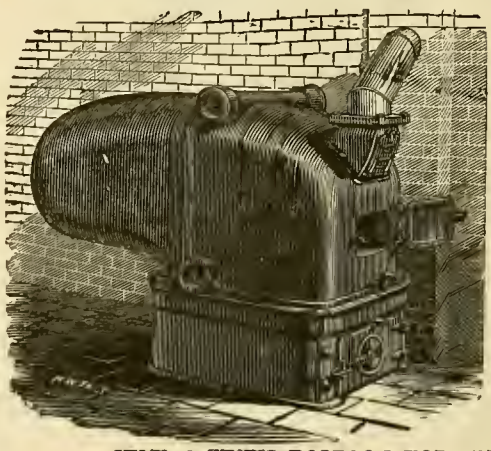
VENTILATING APPLIANCE

J. D. CARMODY, Evansville, Ind.

Or call and see the man and machine at his greenhouse office, located on the lawn west front of Horticultural Building, World's Fair grounds, Chicago, Ill.

GREENHOUSE HEATING AND VENTILATING

Horticultural Architecture and Building.



HITCHINGS & CO.

Established 1844.

233 Mercer St., New York.

FIVE PATTERNS OF BOILERS.

NINETEEN SIZES.

Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc, of Iron Frame Construction, Erected complete, or the Structural Iron Work shipped ready for erection.

Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Top.

SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.

THE AMERICAN FLORIST

A WEEKLY JOURNAL FOR THE TRADE

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. IX. *CHICAGO AND NEW YORK, NOVEMBER 9, 1893.* *No. 284*



Scale
1 foot.

THE QUEEN. WINNING VASE OF 50 BLOOMS, WHITE, AT CHICAGO. SHOWN BY J. C. VAUGHAN.

CONTENTS.

Chrysanthemum shows—Chicago (12 illus). 310
—Philadelphia 316
—New York 318
—Boston 319
Judging new chrysanthemums 320
The ideal chrysanthemum 320
Carnations 320
Miscellaneous seasonable hints. 322
New York 322
Philadelphia 322
Boston 323
Thompsonville, Conn. 323
Coming exhibitions 324
The seed trade 326
Harrisburg, Pa. 326
Toronto 328
Pittsfield, Mass. 328
Buffalo 330
Chicago 332
Baltimore 334

Our Illustrations.

In this issue we present twelve handsome engravings from photographs taken at the World's Fair Chrysanthemum Show, still in progress at Chicago. The titles are self explanatory and no further descriptions seem necessary.

These engravings have special merit as conveyors of correct ideas on account of the fact that in the pictures of vases of flowers the comparative size has been accurately preserved, and the flowers of each variety shown can be correctly compared one with the other. Each vase was placed at exactly the same distance from the camera and as a result the reduction was identically the same in each case. We believe this adds a very great deal to the value of the pictures. Again below each picture we have given a scale by which the actual life size of each flower may be readily determined.

We submit these illustrations as a record breaker for speed in the preparation of fine half tone plates from photographs. The photographs from which the plates are made were taken Monday, the 6th inst., and the printed page with these beautiful, accurate reproductions of the subjects by the photographic half tone process are now before you. This is remarkable speed for such high class work.



THE EXHIBITIONS.

The World's Fair Show.

The last of the World's Fair Congresses opened at the Art Institute on Saturday last; it was a congress of chrysanthemums, and incidentally a congress of beauty too. The delegates commenced to arrive on Friday in select little parties, each travelling in its own private box. They were for the most part attired in tissue paper ulsters of uniform cut, but a wonderful diversity was to be noted when their outside attire was removed. Smooth, sleek and regular blooms and wildly dishevelled ones that suggested Paderewski, everything, in short, except the saucy little pompons of our younger days, which were conspicuous by their absence. The stately entrance hall was richly adorned with plants; in the center a large circular group stood on the mosaic floor, while others were massed around the handsome stairway and the statuary which adorns the hall.

The Art Institute, in which this show is held, is familiar as the meeting place of the World's Fair congresses. Its interior is classically simple, but adorned by plaster casts of famous statuary, and some very beautiful works in the original marble. This stately simplicity lends itself well to adornment by flowers, and the halls are light, well warmed, and well ventilated. The acoustic properties are excellent, giving additional value to the excellent music furnished. On the opening day the halls were constantly crowded, although the exhibits were not all arranged; in fact the influx of fresh arrivals on Sunday morning necessitated the use of an additional hall on the south side of the building. The sudden change from the now dismantled Horticultural Building was an act of wisdom in view of the circumstances that caused the change in the program of the World's Fair officials.

As was anticipated, the best part of the show is centered in the cut flowers. There are some good plants grown to single stem, but in the other classes they are but indifferent. A group of Marie Louise, a new white seedling, a showy reflexed flower, was very good, and Ivory was fine as it always is. But the vases of cut blooms! They were superb!

Decidedly the most taking feature of the show was the huge vases of fifty blooms each. These were certainly grand and attracted instant attention.

For vase of fifty blooms, white, J. C. Vaughan, Chicago, received first, $50, for a superb vase of the new white chrysanthemum The Queen. J. A. Peterson, Cincinnati, also showed a vase of the same variety but while his flowers were grand they lacked the depth and were not so well finished as the first noted. He received third, $25.

For vase of fifty blooms yellow, Vaughan was again first with a vase of splendid blooms of Mrs. J. G. Whilldin. Nathan Smith & Son won second, $35, with a vase of mixed sorts including Mrs. Libbie Allen and Miles A. Wheeler. H. W. Buckbee. Rockford, Ill., took third with a vase of W. H. Lincoln.



Scale
1 foot.

GEO. W. CHILDS. WINNING VASE OF 50 BLOOMS, CRIMSON. AT CHICAGO SHOWN BY NATHAN SMITH & SON

In the class for vase of fifty blooms, pink, E. G. Hill & Co., Richmond, Ind., were first with a vase of grand blooms of Viviand-Morel, Mermaid and Waban, second went to John Curwen Jr., Villa Nova, Pa. Third was take by W. N. Rudd, Mt. Greenwood, Ill., with a vase of his namesake.

Both vases of fifty blooms, crimson, were of the variety Geo. W. Childs. First went to Nathan Smith & Son, Adrian, Mich., and second to Geo. W. Miller, Hinsdale, Illinois.

The entries in the class for fifty blooms, bronze, were not up to the high class of the entries in the other colors and the judges withheld first and second, awarding third to Ernst Asmus, West Hoboken, N. J., for a vase of Hicks Arnold.

For vase of fifty blooms any other color E. G. Hill & Co. took first with a vase of mixed flowers of large size but rather indeterminate color. Ernst Asmus received second for a vase of Ed. Hatch.

For best forty-eight varieties, one flower of each, E. G. Hill & Co. were easily first ($50) with a superb collection of blooms including H. E. Widener, Excellent, Niveus, Eugene Dailledouze, Golden Gate, Joey Hill, Minnie Wanamaker, Mrs. H. N. Higinbotham (new, described elsewhere in this issue), Mrs. Whitney, Marguerite Jeffords, Maria Simpson and other standard sorts. Second ($40) went to W. N. Rudd and third ($25) to Wm. Scott, Buffalo.

For best 25 varieties, one flower of each, first ($20) was taken by Hill, with a fine lot, including Abraham Lincoln, Emma Hitzeroth, White Crown, Beauty of Richmond, Roslyn, Mrs. P. Smith, H. E. Widener, Wedding Ring, Enfant des deux Mondes, Louise D. Black, Mrs. Ley, Elegant, etc. Second ($15) was taken by O. J. Friedman, Chicago, with a fine collection, and third ($10) went to Corbrey & McKellar, Chicago, for a most creditable display.

In the class for 12 varieties, one flower of each, Hill was again first, his collection including Viviand-Morel, Niveus, The Queen, Mrs. Higinbotham, Mrs. Craig Lippencott, Mrs. P. W. Smith and Lagoon. Second went to Nathan Smith & Son, and third to G. W. Currey & Co., Nashville, Tenn.

For 24 Japanese, one flower of each, Hill was again to the front, his collection including Enfant des deux Mondes, Mrs. Higinbotham, Dr. Callandreau, Sun Glow, Chas. Davis, Beau Ideal and others. Second went to Ernst Asmus.

For 12 Japanese, one flower of each, first was not awarded, second going to Hill, and third to C. R. Gallup, Denver.

For 12 Chinese incurved Nathan Smith & Son were first, the varieties including Mabel Ward, Mrs. Robert Craig, Mrs. Dudley C. Hall, Congo, Martha Duryea, Mrs. Louis Childs, Madeira, Hero of Stoke-Newington, Baron Hirsch and Jeanne d'Arc. Second and third were not awarded.

For six Chinese incurved Nathan Smith & Son were again first, the varieties being included in the list named above.

For twelve anemones, distinct varieties, Pitcher & Manda, Short Hills, N. J., were first with a dozen sorts, nearly all named after birds, which is rather a relief after



Scale
1 foot.

WINNING VASE OF 50 BLOOMS, PINK, (BEAU IDEAL, MERMAID AND MRS. HIGINBOTHAM), AT CHICAGO. SHOWN BY E. G. HILL & CO.

the interminable list of personal titles that have carried so many chrysanthemums to early graves. The varieties were Skylark (aptly nicknamed "The Ferris Wheel" by an irreverent spectator), Titmouse, Yellow Hammer, Owl, Garza, American Eagle, Condor, Partridge, Hawk, Swan, Toucan, Tanager. Second went to Nathan Smith & Son, their lot including Thorpe, Jr., Mme. R. Owen, Mrs. Judge Benedict, Ada Strickland, M. Chas. Lebocq and others.

For six anemones, distinct varieties, Nathan Smith & Son were first and Pitcher & Manda second.

For best twelve vases, six flowers of one variety in each, on long stems, first ($50) went to T. H. Spaulding, Orange, N. J., for a lot of flowers of new sorts, including Miss Grace Harris, in the way of Mrs. Rob't Craig, but of rather better size; Silver Cloud, a very light shade of silvery pink; Miss Helen Bloodgood, a very high built rosy pink flower; Mrs. Frank Hatfield, a pale pink ball shaped flower; Judge A. Brown, a promising yellow; Great Republic, an incurved flower of indeterminate shade; Miss G. H. Bates, incurved yellow; Geraldine McCann, a high built round white flower. Second ($40) went to Hill, and third ($30) to O. J. Friedmann.

For best six vases, twelve flowers in each, on long stems, Hill took first ($50) his varieties including Viviand-Morel, Lagoon, Niveus, Chas. Davis, Mermaid, Robt. McInnes. Second ($40) went to Friedman, his sorts including Marguerite Jeffords, Viviand-Morel, W. H. Lincoln, Bertha Flight, Widener and Wanamaker. Third ($30) was taken by Nathan Smith & Son, whose sorts included Mrs. Craig Lippencott, Mrs. Gov. Fifer, H. Cannell, Miss Helyett, Geo. W. Childs, Niveus.

For one vase of twelve long stemmed whites J. C. Vaughan took first with a vase of The Queen. Second went to Hill for a vase of L'Enfant des deux Mondes, and third to Ernst Asmus, who also showed The Queen.

Hill was first for vase of twelve yellow with Mrs. Craig Lippencott; Vaughan second with a vase of the same variety; W. N. Rudd third with a vase of W. H. Lincoln.

W. N. Rudd came in first for vase of twelve pink with a superb dozen of Harry Balsley. Hill was second with a vase of Viviand-Morel, and Smith & Son third with the same variety.

G. W. Currey & Co. carried off first for twelve crimson with Geo. W. Childs, Smith & Son second with Cullingfordii.

Hill took first for vase of twelve any other color with a dozen Robert McInnes. Second and third were not awarded.

For twelve varieties of American origin, one flower of each, Hill was first, the varieties much the same as had appeared in his collections already mentioned. Second went to Fred Dorner & Son, Lafayette, Ind.

Hill had it all to himself in the classes for twelve of European origin and twelve of Japanese origin, and took first in both classes with worthy collections. Second and third were not awarded.

The hairy white sort L'Enfant des deux Mondes (which will probably be at once translated into "Child of two Worlds" for the benefit of English tongues and thus cause more confusion) was shown in excellent form and bids fair to be useful as a commercial sort. It is a sport from Louis Boehmer, originating with M. Crozy.

Another hairy flower, a seedling of E. G. Hill's, is Mrs. H. N. Higinbotham; it is a large and robust flower, very hairy, of a clear bright pink, quite free from the livid tint of Louis Boehmer.

The cut flowers were, in the main, very well arranged in handsome Japanese vases, as they should be. The corridors are lined with tables on both sides, with

an overflow into the halls. A very handsome arrangement, not for competition, was arranged by M. F. Gallagher, Chicago; it was a canopied table, draped in pale green. Within this delicate shade were large vases of chrysanthemums, in the center a handsome vase filled with The Queen, one of the showiest of incurving loose petalled whites. The whole effect of this table was charming, and it is a pity that there were not more exhibits arranged in this way.

MISCELLANEOUS CUT FLOWERS.

On the first day in the rose premiums O. P. Bassett led, having first for American Beauty, Catherine Mermet, La France, Meteor, Perle des Jardins and Albany. W. W. Coles, Kokomo, Ind., received first for Kaiserin Augusta Victoria and Mme. Caroline Testout. The Oakwood Rose Garden, Oil City, Pa., took first with Bridesmaid; G. W. Currey, Nashville, Tenn., first for Mme. Cusin; M. A. Hunt, Sunset; W. A Kennedy, Lake Forest, Ill., Papa Gontier. The roses were, on the whole, very good; Mme. Testout and Meteor were, perhaps, the best of any varieties shown.

In carnations Fred Dorner & Son, Lafayette, Ind., took the lead. The best fifty white was Uncle John, which really deserves all the praise given it; best fifty pink was secured by Wm. Scott, with Mme. Diaz Albertini second. R. Witterstaetter, Sedamsville, Ohio, took first for fifty yellow. The Stuart was shown by Mr. Dorner, but not for competition; it is a beautiful clear scarlet, and very good form. Violets, both white and blue, shown by O. J. Friedman, Chicago, received first prize; first for lily of the valley went to Corbrey & McKellar, while first for mignonette went to Dailledouze Bros., Flatbush, N. Y.

CHRYSANTHEMUM PLANTS.

The display of plants was fair, but not very extensive compared with the superb exhibition of cut blooms. The principal exhibitors of plants were Messrs. O. P. Bassett, Hinsdale, Ill., who had entries in most of the classes, and a part of whose collection is seen in one of our illustrations with his group of single stem Ivorys in the foreground; J. C. Vaughan, Chicago, who had the only standards and who had good collections in the single stem and several other classes; E. G. Hill & Co., Richmond, Ind., who had very fine groups of single stems, one of pink, one of white and one of crimson; M. F. Gallagher, Chicago, who made a good general display; H. A. Rieman, Indianapolis, who had a nice general collection; H. W. Buckbee, Rockford, Ill., also a general display; and R. Witterstaetter, Sedamsville, Cincinnati, who displayed a fine group of single stem plants of the white Marie Louise, which is illustrated in this issue. The premiums were distributed among these exhibitors.

THE SEEDLINGS.

These were the star attractions on Tuesday, and indeed of the exhibition as a whole.

The entries were surprisingly numerous in the class for "best seedling on exhibition not yet disseminated, any color, 12 blooms," and for which a prize of $100 was offered. This juicy peach was taken by E. G. Hill & Co., with a huge globular yellow named Challenge. It is apparently a late variety, as the center was not yet fully opened. It is a very high built flower and comes very near to Mr. Wood's ideal. An engraving of it will appear in next issue.

Other important entries in this class were by Fred Dorner & Son, Lafayette, Ind., who showed a new yellow named Major Bonnaffon, a superb flower which was given a special medal, and which we shall illustrate next week. The name, however, will undoubtedly be at once abbreviated to the "Major." It is high time to get away from the long, hard-to-spell names that are recklessly loaded on to varieties. We are rejoiced to learn that one prominent originator of new varieties has a list of monosyllabic titles from which he will make selection of names for future introductions.

A remarkable white variety named Mrs. J. Geo. Ils (What a name!) was shown by John Sievers, San Francisco. It was about five inches in diameter and *the same* in depth. After the long shipment from California the lower petals looked rather tired, but not one had fallen and even at this date the flowers are solid as a ball. Such substance, such depth and such shipping qualities are bound to make this an important addition to our list of varieties. We shall publish next week a life size illustration of one of the flowers.

Pitcher & Manda, Short Hills, N. J., entered a large flat flower, white, with yellowish center, named after themselves. John N. May showed Wm. Simpson, a good pink variety. Other entries were by R. Witterstaetter, Sedamsville, O.; Jas. Morton, Clarksville, Tenn; Alex McLellan, Newport, R. I.; Vick & Hill, Rochester, N. Y.; T. H. Spaulding, Orange, N. J.; H. W. Rieman, Indianapolis; and all were worthy of mention that we have not space to give them now.

For best vase of white blooms R. Witterstaetter won with a vase of the new white sort, Marie Louise.

The winning vase of yellow was filled with Eugene Dailledouze and was shown by Hill & Co. It is a cross between Abbie Mendenhall and Kioto.

For best vase of pink the award went to Fred Walz, Sta. A., Cincinnati, for a vase of Edwin Walz, a fine incurved sort.

T. H. Spaulding got the prize for best vase of crimson with Brigand, in the way of Geo. W. Childs.

J. C. Vaughan, Chicago, won on best vase of bronze with a handsome incurved red bronze sort not yet named.

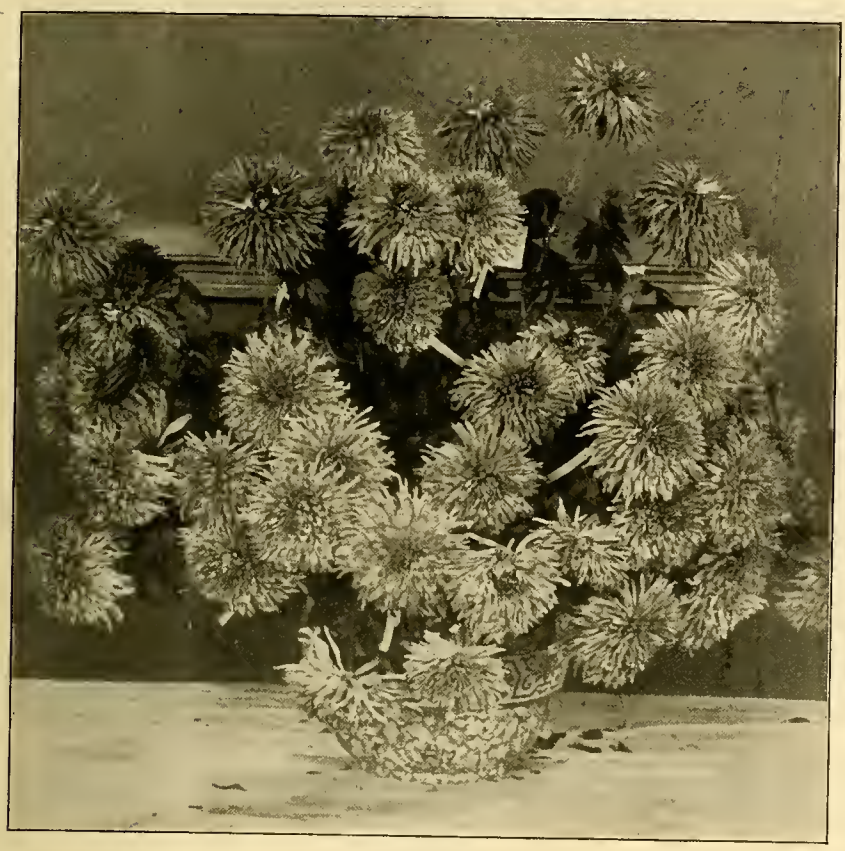
For vase of any other color Hill & Co. won with Inter Ocean, a large reflexed flower, creamy white, suffused with pink. It is from Viviand-Morel crossed with L. Canning and has the form of the seed parent. We shall publish an engraving of it next week.

J. C. Vaughan was first for 100 blooms, white, in vase, with a grand vase of The Queen that was a great feature of the dis-



Scale
1 foot.

WINNING VASE OF 50 BLOOMS, ANY OTHER COLOR, (ROBT. McINNES AND A SEEDLING), AT CHIGAGO. SHOWN BY HILL & CO.



Scale
1 foot.

MRS. J. G. WHILLDIN WINNING VASE OF 50 BLOOMS, YELLOW, AT CHICAGO. SHOWN BY J C. VAUGHAN.



Scale
1 foot.

L'ENFANT DES DEUX MONDES, IN HILL'S WINNING SIX VASES AT CHICAGO.

play; and E. W. Weimar, Mt. Vernon, N. Y., won on vase of 100 yellow.

FLORAL ARRANGEMENTS, ETC.

Among the other premiums awarded on Tuesday that for best vase, any color, with autumn foliage, was won by the Art Floral Co., Chicago, with a jardiniere in the form of an old stump, filled with bronze, yellow and crimson chrysanthemums and autumn leaves. The same exhibitor showed a very handsome silver basket filled with The Queen and heavy ferns. O. J. Friedman took the prize for the best basket of chrysanthemums with a large canoe filled with pink and white flowers, for the best display of lily of the valley, the best display of cut orchids—some nice cattleyas and odontoglossums—and the best vase of American Beauty. In addition to these, Friedman displayed two "shower bouquets," the special feature of these being a graduated shower of small flowers, caught in little loops of baby ribbon, pendent from the bouquet itself. One bunch was of small white chrysanthemums, maidenhair ferns and lily of the valley, a shower of valley being caught in loops of white ribbon; the other, composed of cattleyas and maidenhair, had a shower of violets caught in violet ribbon. Bouquets of this style had quite a vogue in England at the queen's drawing rooms, being carried by the ladies who were presented at court. Mr. Friedman's display deserves a great deal of commendation. Several other designs, in varying degrees of merit, were noted. A large picture and frame in flowers and a large Venus' chariot of roses, drawn through a wilderness of small plants by a squad of doves harnessed with pink ribbon, were the work of Albert Fuchs and Mrs. Fuchs, and received honorable mention.

On the third day Mr. Gallagher made a complete change in the arrangement of his display, changing the drapery to a dark red relieved by festoons of pale yellow, and adding a canopy. The effect was most excellent and we had a photograph taken, a plate from which will appear in our next issue.

On the same day an additional attraction of great merit was a grand display of mixed cut flowers and decorative plants arranged for effect by Messrs. E. Weinhoeber & Co., Chicago. A photograph was taken of this also and we expect to have a plate for next week's issue.

For 12 blooms of seedling rose of European origin W. W. Coles won with Kaiserin Augusta Victoria, the Oakwood Rose Gardens, Oil City, Pa., coming in first on 50 roses of mixed varieties in a vase, the roses being first class and the arrangement being specially meritorious; O. J. Friedman, Chicago, won on vase of 50 American Beauties; and W. A. Kennedy, Lake Forest, Ill., on general display of roses with an excellent collection of fine flowers.

The estate of N. Singler, Washington Heights, Ill., won on new seedling carnations with an unnamed flower of the Daybreak type, a very beautiful bloom that will evidently have great commercial value. Peter Herb, Mt. Healthy, O., showed blooms of his rosy pink sort Adelaide H. Kresken, and a beautiful thing it is. Other entries were by John McGowan, Orange, N. J., and M. A. Hunt, Terre Haute, Ind.

Pitcher & Manda won on collection of cypripediums, displaying about 30 varieties which were much admired.

A handsome display, not for competition, was staged by Mr. Grove P. Raw-

son, Elmira, N. Y. In addition to the chrysanthemums, which comprised a number of vases filled with high-class specimen blooms, there was a good exhibit of roses, vases of unusually good La France, Mermet, Bride, Perle des Jardins and Albany. The flowers were well arranged and well grown, making an extremely creditable showing.

E. G. Uihlein, a Chicago amateur made a beautiful display of stove and flowering plants and orchids, arranged for effect and not for competition but the judges awarded it a special medal. M. F. Gallagher was also awarded a special medal for his display mentioned elsewhere; and James Dean, New York, received a medal for a superb display of tuberous begonia flowers.

NOTES.

The judging has been above criticism and has been an admirable feature of the exhibition. Every point was considered and given due weight. The judges were Messrs. E. A. Wood, West Newton, Mass., Edwin Lonsdale, Chestnut Hill, Philadelphia, Pa., and Frank Leslie, Lake Geneva, Wis. "May their shadow never grow less."

Among those present at the exhibition from a distance were Robert Craig, Philadelphia; James Dean, New York; Elmer D. Smith, Adrian, Mich.; Edwin Lonsdale, Chestnut Hill, Philadelphia; Elijah A. Wood, West Newton, Mass.; E. G. Hill, Richmond, Ind.; J. C. Rennison, Sioux City, Ia.; R. Witterstaetter, Cincinnati; W. W. Coles, Kokomo, Ind.; M. A. Hunt, Terre Haute, Ind.; Avery Gallup, Denver; H. A. Siebrecht, New York; J. A. Peterson, Cincinnati; Fred Dorner, Jr., Lafayette, Ind.; Chas. Dannacher, Davenport, Ia.; Stephen Taplin, Detroit, Mich.; Fred S. Walz, Cincinnati; Carl Schweitzer, Cincinnati; J. Nelson, Oshkosh; Judson Kramer, Cedar Rapids, Ia.; J. D. Imlay, Zanesville, O.; James and Adam Currie, Milwaukee; Jos. Heinl and his son, Jacksonville, Ill.; H. W. Buckbee.

Carnation Uncle John, shown by Fred Dorner & Son, Lafayette, Ind., made a record as a keeper. So late as Thursday, the 6th day of the exhibition, it was as bright and cheerful as ever, though all the other carnations were then fit only for the rubbish heap. This very desirable quality will undoubtedly make the variety of unusual value.

Messrs. Craig, Dean, Anthony, Egan, Pettigrew and Chadwick, the active managers of the exhibition, are certainly entitled to a very great deal of credit for their excellent work, especially in view of the exceedingly embarassing change in location at the last moment after arrangements had been practically completed for holding the show at the World's Fair grounds. The Exposition officials are delighted with the success of the show and declare it a fitting termination of the great World's Fair and of its Auxiliary Congresses.

PAID ADMISSIONS.

1st	day,	Saturday,	1,096
2nd	"	Sunday,	1,630
3rd	"	Monday,	2,151
4th	"	Tuesday,	3,107
5th	"	Wed. (bad wth'r)	1,900
Total for five days			9,884

The exhibition will continue at least two days more and for Friday will surely be very large, as much interest has been developed in the contest in table decorations that takes place on that day, which are to be judged by a committee of promi-



ROBT. McINNES. IN HILL'S WINNING SIX VASES AT CHICAGO.

nent ladies of which Mrs. Potter Palmer, president of the Board of Lady Managers of the World's Fair, is chairman.

It was truly a World's Fair show, exhibits coming from both the Atlantic and Pacific coasts, and from Canada on the north to New Orleans on the south. No less than 21 states (in addition to Canada) were represented by exhibits as follows: California, Colorado, Connecticut, District of Columbia, Illinois, Indiana, Iowa, Kentucky, Louisiana, Maryland, Massachusetts, Michigan, Minnesota, Missouri, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, Tennessee, Vermont.

REVIEW OF VARIETIES EXHIBITED.

Below we give a review by Messrs. E. A. Wood and Edwin Lonsdale of nearly all the varieties shown at the World's Fair Show, alphabetically arranged. In the list are included only varieties that are in commerce, and the new and untried ones have been omitted. The seedlings are reported upon elsewhere.

In this list we inaugurate a change in alphabetical arrangement as regards varieties named after individuals which we shall follow in all future lists. As will be noted such varieties are treated just as the personal names would be in an alphabetical list of such names alone. The various preliminary titles in such names are so apt to be dropped by some for the sake of brevity that the correct place in a list is frequently far from the one where one not having the full title in mind would look for it. And by this method varieties named after both Mr. and Mrs. John Smith are brought near together and the distinction is at once apparent, though one may have forgotten whether the variety he is looking for is Mr. or Mrs. And where "The" forms part of the title the main title is indexed. For instance few look for "The Bride" among the Ts. They look in the Bs and when it does not appear there they imagine it has been omitted from the list. Thus we give it as "Bride, The," which is the only rational way, but which curiously enough has never been followed in lists of flowers before.

Adolphe. Lavender pink, globular. Already have too many of this color.

Allen, Mrs. Libbie. Yellow. Good when well done. Exhibition only.

Amber Queen. Amber. New, will attract attention as an exhibition flower.

Arnold, Mrs. Hicks. Bronze. Good for both exhibition and commercial purposes. Early.

Autumn Eve. White. Not remarkable.

Autumn Glow. Pale nankin yellow. Immense bloom, but color dull.

Avery, Mrs. C. D. Yellow. Beautiful color, but small.

Bahuant, M. Old rose. An incurved variety in England, but reflexes and fades badly in this country.

Balsley, Harry. Pink. A very beautiful delicate shade. A valuable addition for both commercial and exhibition purposes.

Bard, The. Dark red. Of no value. Too small.

Beacon. White. Immense flat bloom, but nearly valueless on account of petals breaking off.

Bertermann, Clara. Maroon. Don't like it.

Bird, Lilian B. Pink. Practically dropped on account of its weak neck.

Boehmer, Louis. Inc. Lavender pink, hairy florets. Too dull in color.



Scale
1 foot.

HARRY BALSLEY. WINNING VASE OF 12 PINK, AT CHICAGO. SHOWN BY W. N. RUDD



Scale
1 foot.

VIVIAND-MOREL. IN HILL'S WINNING SIX VASES AT CHICAGO.

Bottomley, Rob't. White. Still quite good, but many others are better. This variety should be called Lady Trevor Lawrence.

Callandreau, Dr. Pale yellow. Too light in texture.

Cannell, H. Yellow, globular. Still valuable in collections.

Cathedral, The. Inc. white. Beautiful thing when well done, but good only for exhibition.

Childs, Geo. W. Ref. crimson. Best crimson up to date.

Clarke, Mrs. E. W. Inc. amaranth. Still good in exhibition collections, but color not very attractive.

Clark, Mrs. Irving. Pink. A good flower for exhibition, but coarse in texture and apt to come streaked.

Craig-Lippencott, Mrs. Inc. yellow. Best yellow that has appeared since Widener was introduced.

Craig, Mrs. Robt. Inc. white. Beautiful bloom.

Crouch, Mrs. J. W. Inc. amaranth. Very fine bloom of its color.

Dailledouze, Eugene. Inc. golden. An incurved Japanese flower having the peculiar lustre of Kioto, but much larger and having a stronger stem.

Davis, Chas. Ref. buff. A sport from Viviand-Morel, having all the good traits of that well known variety.

Delaux, Jeanne. Blood red. An old variety now seldom seen at exhibitions.

Domination. White. Still very good with some growers.

Drexel, Mrs. A. J. Crimson lake. The best of its color.

Eda Prass. Jap. Very delicate pink. Good for all purposes. A gem.

Eldorado. Inc. Jap. yellow. One of the best of its color, but difficult to grow.

Ermenilda. Jap. Inc. Beautiful light pink. A valuable acquisition.

Ewing, A. T. Ref. pink. Beautiful bloom, but not quite large enough for standard collections.

Excellent. Inc. blush. Past its usefulness. Too many bad faults to mention in one paragraph.

Exquisite. Light pink. A seedling from Mrs. Fottler and almost identical with that variety.

Farson, Mrs. D. D. L. Pink. Don't consider it worth growing.

Fifer, Mrs. Gov. White. Ordinarily too single.

Flight, Bertha. White, with a suggestion of yellow. Very good flower.

Flowerday, Rob't. Magenta. Not ordinarily considered worth growing.

Gause, Geo. R. Ref. terra cotta. Not a valuable acquisition.

Gerard, Mrs. J. N. Light lavender pink. Good early flower. With some growers very unsatisfactory.

Gettysburg. Deep red. Very good flower, but lacks depth.

Goguac. Jap. A white sport from Mrs. Irving Clark. A good thing. Very large.

Golden Gate. Tawny Japanese. An immense bloom, but not a self color. Good in large collections.

Golden Wedding. Jap. Inc. Yellow. Beautiful golden yellow flower.

Good Gracious. See Princess of Chrysanthemums.

Hardy, Mrs. Alpheus. Inc. white, hairy florets. Beautiful bloom, but so difficult of culture it is little grown.

Harvest Moon. Yellow. A very good flat flower.

Hallock, V. H. Pale pink. One of the most beautiful in color, but all growers not successful with it.

Hatch, Edw. Jap. Inc. white, suffused with pink. An exceedingly large and deep bloom.

Helyett, Miss. Inc. deep amaranth. A good exhibition flower. Always attracts attention in a collection.

Hill, Flora. Cream white. Very fine late white.

Hill, Joey. Inc. Deep red, buff reverse. Large flower, very full.

Hitzeroth, Emma. Inc. Yellow. Good early yellow.

Hull, Dr. H. D. Delicate pink. Large flat petals. Very good bloom.

International. Inc. Straw color. A poor rag.

Irma. Inc. Pink. A beautiful bloom.

Ivory. Jap. White. Still king of the whites.

Jeffords, Marguerite. Inc. Buff. Very fine flower.

Jessica. White. Still grown commercially for early blooms.

Jones, Mrs. Jerome. Inc. White. The most beautiful late white in cultivation. And most beautiful foliage of any chrysanthemum.

Judge Hoitt. Anem. Lavender. One of the few of this class large enough to stage amid other classes.

King's Daughter. White. Almost identical with Mrs. Langtry. Petals come narrower with some growers.

Kioto. Inc. Jap. Yellow. Very fine bloom. Its only fault is weak stem.

Krueger, C. Nankin yellow. Good in large collections.

Laughton, Mrs. Oliver. Inc. Rosy purple. An immense flower good only for exhibition.

Lay, Mrs. Inc. Pale lavender pink. Good exhibition bloom.

LeRoy, Ada H. Pink. Very little grown.

L' Enfant des deux Mondes. A white sport from Louis Boehmer.

Lincoln, W. H. Deep yellow. One of the best of the yellows for all purposes.

McInnes, Robt. Jap. Inc. Bronze. As shown at Chicago a very good variety.

Madeira, Mrs. L. C. Inc. Yellow. The best of the incurved yellows.

Marvel. Jap. White blotched with light lake. Not worth talking about.

May, Harry. Bronze yellow. One of the best of the bronzes.

Mermaid. Inc. Pink. A fine exhibition or commercial flower.

Morrissey, Mrs. J. W. Lavender pink. Good in large collections.

Mt. Whitney. Ref. White. Good in large collections.

Mursell, Kate. Lemon yellow. Sport from Lady Trevor Lawrence (Robt. Bottomley).

Newett, W. G. Jap. White. An immense flower. Very valuable variety.

Niveus. White. Very valuable acquisition. Good for both commercial and exhibition purposes. Immense bloom.

Olga. Inc. Pale magenta. Immense bloom but poor color.

Owen, Robt. Inc. Yellow. Beautiful flower, full double, good depth.

Princess of Chrysanthemums. Inc. Blush. Beautiful exhibition bloom, apt to grow crooked stem close to flower.

Queen, The. Inc. White. One of the most beautiful flowers in the exhibition.

Rey, Mlle. Therese. Cream. A very large flower.

Roslyn. Inc. Pink. Good exhibition flower.

Rudd, W. N. Pink. A unique bloom of pleasing form.

Russell, Lillian. Pink. Beautiful flower, but a trifle small.

Salvator. Ref. Terra cotta. Not of much value.

San Joaquin. Anem. White. An immense flower for this class.

Seward, Wm. Crimson. Good sized flower. Very dark in color.

Simpson, Mrs. Maria. Inc. Yellow. A very fine flower. Not quite large enough for most collections.

Smith, Col. W. B. Jap. Bronze. Very good exhibition bloom.

Smith, Elmer D. Crimson, reverse buff. Very little grown.

Source d' Or. Orange yellow. Good for bush plants.

Spaulding, Ada. Pink. Beautiful bloom.

Summit. White. Globular.

Swanson, Aug. Inc. Buff splashed crimson. Too dull in color. A poor thing.

Taylor, Jno. H. White. A very good bloom when well done.

Thompson, Frank. Delicate pink. Beautiful exhibition bloom.

Thompson, Mrs. Frank. Jap. Lilac pink, silvery reverse. An immense flower but coarse in petal.

Thorpe, John. Crimson lake. Good in its day but its day is past.

Tuxedo. Jap. Orange brown. Very large flower, good in collection.

Vaughan, J. C. Crimson lake. A good flower but too often shows center.

Viviand-Morel. Ref. Pink. A universal favorite. Produces immense flowers. Good for exhibition or commercial purposes.

Waban. Inc. Pink. Too flimsy.

Wanamaker; Miss Minnie. Inc. White A very popular midseason flower. Good.

Whilldin, Mrs. J. G. Yellow. A good early light yellow. Makes a good exhibition plant. Not so valuable for exhibition blooms.

White, Jos. H. Jap. White. Very valuable commercial flower.

Whitnall, C. B. Deep amaranth. A very fine exhibition bloom.

Widener, H. E. Yellow. One of the best of the yellows.

Philadelphia.

The chrysanthemum show of the Penna. Horticultural Society opened under very favorable auspices last Tuesday afternoon. The exhibition is being held in the Armory of the State Fencibles, who kindly loaned the building for this purpose. The interior presents anything but a warlike appearance at present, it being decorated throughout with autumn leaves, laurel and spruce boughs, with smilax and laurel wreathing. The growing specimens are all arranged on the second floor in the drill room, while the cut flowers are displayed in the large company rooms either side of the center hall. The furnishings of the rooms, which are quite elaborate, add considerably to the beauty of the show. Taken altogether the exhibition is very complete, and Mr. Westcott, superintendent, as well as the committee of arrangements, deserve a great deal of credit for their management of the affair. Everything was arranged and the judges through with their awards by 5 p. m., and the premium cards were all attached in time for the evening reception, which at this writing promises to equal that of any previous first night. The show is a grand one in every respect, never before in the history of the society has there been such a display of well grown plants, or anything approaching the specimens of cut blooms that are staged at this exhibition. Such an authority as W. K. Harris said: "Well, I thought I had seen fine chrysanthemums, but these collections are far ahead of anything I have ever seen."

There are vases of cut blooms containing fifteen, twenty-five and fifty specimens, the weakest of which would have been selected out of collections of previous years and spoken of as remarkable flowers. One exhibitor had a remarkable white seedling that many thought equally as good as Ivory which was withdrawn when the other exhibits in its class were seen, for fear that it should not get first place, and it was taken away for another growing and a trial next year.

The plants in comparison to the pace set by the cut flowers are almost, if not quite, even with them in improvement. Jas. Verner, gardener to the late A. J. Drexel, had a magnificent display. His plants are all perfect specimens, not a weak one in the whole lot. We are confident that nowhere else in this country could such plants be seen. He exhibits 24 plants, the smallest being at least seven feet in diameter. The flowers, which are borne abundantly, some plants containing over 200 blooms, were of good size and color and the foliage in perfect condition. Of course such a collection were prize winners, and Mr. Verner carried off all the first prizes in the classes he entered.

Another collection and of special mention was entered by Emil Leiker, it being his first exhibit. His plants, while not as large as Mr. Verner's, were fine specimens and showed the result of careful attention, as in point of color, size of flowers and general neat appearance they were a great credit, and but just starting out for himself he captured almost all the second prizes for his entries.

Other exhibitors were J. McCleary, Wm. Boyce, H. G. Standen, C. W. Cox, Gordon Smirl and W. K. Harris. The latter gentleman only exhibiting plants such as are used commercially and grown in 6-inch pots. His collection of 25 were fine specimens of what can be done with this sized plant, as were also those of Messrs. Leiker and Huster. There were a few attempts at standards, but the least said about them the better. There may have been standards grown that were worth the trouble it took to train them, but we have yet to see them if we may except a few exhibited by Hallock & Thorpe years ago.

Edwin Lonsdale made a very creditable and indeed a very attractive exhibit of orchids in pots and pans; there were a number of clumps of Cattleya labiata with several spikes of flowers and about fifteen other varieties, including oncidiums, cypripediums, lælias, etc. There were about forty plants altogether and the orchid table was surrounded at all times.

The display of cut blooms was a revelation and we are glad to note one thing, that each flower had at least 12 inches of stem. The old boxes have gone, we hope never to return.

The collections of 52 and 25 blooms were competed for by Messrs. J. Heacock, H. Grayhouse, J. McCleary and F. Heck, and many of the specimens in these collections were remarkable for size and color; one flower of Golden Wedding in Mr. Heck's collection was commented on by all who saw it, and the opinion was general that it was the largest flower ever seen on exhibition in this city and state; it did not present that coarse appearance so common in large flowers. In this collection fine blooms of Mrs. Bayard Cutting, Mr. and Mrs. Frank Thompson, Viviand-Morel and Ada McVicker were the most prominent. Hugh Graham's exhibit presented a very even appearance, all being fine flowers, the best flowers seemed to be Pres. Smith, Niveus, J. H. Cliffe, Geo. R. Gause, Edward Hatch,



HILL'S WINNING COLLECTION OF 48 VARIETIES, ONE FLOWER OF EACH, AT CHICAGO.

Viviand-Morel, Mrs. Ogden, The Queen, H. E. Widener, Frank Thompson, Golden Wedding, H. Balsley, Mrs. Sharpless, E. Hitzeroth, Harry May, Mrs. Lippencott and Ivory.

J. Heacock's collection was noticeable for its fine blooms of Belle of Orange, F. Thompson, Mrs. D. D. L. Farson, Mrs. Thomas, Mrs. L. C. Madeira, Etoile de Lyon, Lincoln, R. Bottomley and Domination.

The vases of cut flowers containing from six to fifty specimens each were objects of general admiration and perhaps attracted as much if not more attention than any other single exhibit. Mr. E. Lonsdale's two vases of fifty, the pink vases being Harry Balsley and the other fifty yellow, Mrs. Craig Lippencott, each flower a beauty, were the wonders of the show, and many times the remark could be heard, "Did you see those magnificent pink and yellow vases, you must see them!"

Mr. Heacock also exhibited a vase of fifty Ivory which attracted a great deal of attention. They were very fine flowers. A similar vase of Marguerite Graham, a variety similar to Kioto but with a good stem and pure white in color, shown by Hugh Graham, presented a handsome appearance and was frequently pointed out by visitors.

Among the seedlings never before exhibited and placed in competition for the Blanc prize was one exhibited by E. G. Hill & Co., Richmond, Ind. It is called Eugene Dailledouze. It is a superb incurved yellow, large but not coarse, and has a fine stem. This will likely become a leading variety. It received the first prize over six competitors, all of which were good, notable among them being Katherine Leech, a fine pink by H. Graham, also a fine lemon yellow, no name. Another very curious variety, Loda, greenish center, body of flowers white and edge pink. The flower was very flat and round, as if grown to a mould, quite a curiosity.

The collection of roses exhibited the first day was confined to the growers, and while not large was very creditable in point of excellence, some really fine flowers being shown. Cut carnations were also confined to the growers and were of excellent quality, although it was expected to see more entries among the seedlings.

The following were the awards of the first day: Plants in pots, open to all. For collection 10 plants, 10 varieties, first to James Verner, gardener to the late A. J. Drexel; second to Emil Leiker; third to Gordon Smirl, gardener to Joseph F. Sinnott; special to John McCleary, gardener to William Weightman.

For collection six new varieties never before exhibited at the shows of the society, first to Henry D. Surman, gardener to E. W. Clark; third to John McCleary.

For best specimen plant, new variety, never before exhibited at the shows of this society, first to C. W. Cox, gardener to Mrs. Clay Kemble; second to William Boyce, gardener to Charles Hibbard.

For specimen standard, third to John McCleary.

For 25 plants, 25 varieties, in not over 6-inch pots, first to W. K. Harris, second to Emil Leiker, third to Gebhard Huster, gardener to J. B. Heyl; fourth to Chas. Wm. Cox.

For specimen plant, white, first to James Verner; second to Emil Leiker; third to William Boyce.

For specimen plant, yellow, first to Emil Leiker; second to James Verner; third to A. G. Wanden.

For specimen plant, any other color, first to James Verner; second to Charles W. Cox; third to Emil Leiker; fourth to Gordon Smirl.

For four specimen plants, four different colors, first to James Verner; second to H. G. Standen; third to John McCleary; fourth to Emil Leiker.

For best seedling plant, first to William Jamison, gardener to R. S. Mason.

Special prizes: "Wootton prize" offered by Mrs. George W. Childs, for three varieties, three different colors, first to James Verner; second to Emil Leiker.

"Pembroke prize," offered by Mrs. Charles Wheeler, for four varieties Japanese, four colors, first to James Verner.

"Record prize," offered by William M. Singerly, for six naturally grown plants, six varieties, first to Gordon Smirl.

"Ravenhill prize," silver cup, offered by Miss Marie Weightman, for best plant of Miss Marie Weightman, and best 12 blooms of same, first to John McCleary.

"Luzon prize," offered by Edwin H. Fitler, for 60 blooms, five varieties, first to Hugh Graham; second to F. R. Sykes, gardener to Mrs. G. Dawson Coleman.

"Drexel prize," for the best plant of Mrs. A. J. Drexel, first to James Verner.

"Runnymede prize," three plants yellow, any variety, first to James Verner; second to Emil Leiker.

"Sugar loaf prize," for best seedling never before shown, first to William Jamison for pink Japanese variety, named Wissahickon.

"Paul prize," for best specimen of Mrs. James W. Paul, first to James Verner.

"Blanc prize," offered by A. Blanc, for for best seedling (cut blooms) chrysanthemum of 1893, first to E. G. Hill, Richmond, Ind., for Eugene Dailledouze.

"Wohlruh prize," offered by Charles Dissel, for best 12 blooms, any variety not disseminated, first to John N. May.

"Schaeffer prize," silver cup, offered by Miss Elizabeth Schaeffer, for 75 cut blooms, 25 varieties, three of a kind, first to Joseph Heacock.

"Burpee prize" for best 12 cut blooms, Mrs. A. C. Burpee, first to Gilmore & Doherty. For best six blooms, second to Joseph Heacock.

"Thompson prize" for 25 cut blooms of any variety not disseminated prior to the spring of 1893, first to Hugh Graham, second to Edwin Lonsdale.

Cut blooms of chrysanthemums open to all.—For collection of 25 cut sprays, one of a kind, first to John McCleary.

For naturally grown sprays, 12 varieties, first to Charles M. Cox; second, to H. G. Standen; third to John McCleary.

For 52 blooms, one of a kind, first to Frederick Heck, gardener to George F. Bair, Reading Pa.; second to Joseph Heacock; third to Hugh Graham.

For 36 blooms, 12 varieties, first to Joseph Heacock; second to Gordon Smirl.

For 25 blooms, one of a kind, first to Ferdinand Heck, second to Hugh Graham; third to Thomas D. Monahan, gardener to C. W. Trotter.

For best vase of yellow, 12 blooms one variety, first to Hugh Graham; second to Thomas Monahan; third to Joseph Heacock.

For best vase of white, 12 blooms one variety, first to Edwin Lonsdale, second to Joseph Heacock; third to Hugh Graham.

For best vase of any other color, 12 blooms, one variety, first to Joseph Heacock; second to Hugh Graham; third to Henry G. Standen.

For best vase of cut blooms not over four of a kind, first to Hugh Graham; second to Joseph Heacock; third to Henry G. Standen.

For vase 50 cut blooms, pink, one variety, first to Edwin Lonsdale; second to Hugh Graham.

For vase 50 cut blooms, white, one variety, first to Joseph Heacock; second to Hugh Graham; third to Fred R. Sykes.

For vase 50 cut blooms, yellow, one variety, first to Edwin Lonsdale.

For mixed cut blooms, special premium, to Fred R. Sykes.

Cut blooms, growers only, carnations, for best seedling, any color, not less than six blooms, first to Edward Swayne.

For 25 blooms, scarlet, first to Hugh Graham; second to Joseph Heacock.

For 25 blooms, light pink, first to Joseph Heacock; second to Hugh Graham; special to W. K. Harris.

For 25 blooms dark pink, first to Hugh Graham; second to Joseph Heacock.

For 25 blooms, white, first to Hugh Graham, second to J. Welsk Young.

For 25 blooms, striped on yellow ground, first to William K. Harris.

For 25 blooms, crimson, first to Hugh Graham.

For 25 blooms, any other color, first to Edward Swayne.

For best display of violets, cut blooms, first to S. J. Burnham, New York.

Cut roses. For 12 Perle des Jardins, first to David Cliffe.

For 12 Niphetos, first to Joseph Heacock.

For 12 Kaiserin Augusta Victoria, first to Edwin Lonsdale, second to David Cliffe.

For 12 The Bride, first to Hugh Graham, second to Joseph Heacock.

For 12 Sunset, first to David Cliffe.

For 12 Catherine Mermet, first to Joseph Heacock, second to Hugh Graham.

For 12 Mme. Hoste, first to J. Welsh Young, second to David Cliffe.

For 12 of any other variety, first to Joseph Heacock, second to Hugh Graham.

For six American Beauty, first to Joseph Heacock; second to Edwin Lonsdale.

For 12 La France, first to Hugh Graham; second to J. Welsk Young.

For 12 Mme. Cusin, first to Hugh Graham.

For 12 Mme. Wattevilie, first to Joseph Heacock, second to David Cliffe.

For 12 Meteor, first to Hugh Graham.

For 6 American Belle, first to Hugh Graham.

For Bridesmaid (special) to Joseph Heacock.

Designs and table decorations, open to all. For plateau of ferns and foliage, first to Pennock Bros.

For plateau of chrysanthemums, first to Pennock Bros. For window box of chrysanthemum plants, first to Charles W. Cox, gardener to Mrs. Clay Kemble; second to Pennock Bros.

For table decoration of ferns and foliage, first H. Westcott Floral Establishment.

For handle basket of flowers, first to John Crawford; second to Pennock Bros.

Grapes.—For foreign grapes, six bunches, six varieties, first to James H. Bull, second to Gebhard Huster, gardener to J. C. Heyl. For three bunches, three varieties, first to James H. Bull.

For Muscat, any variety, two bunches, first to James H. Bull.

For any other variety, first to William Powers; second to James H. Bull.

For specimen bunch, any variety, first to William Powers, second to James H. Bull.

Special mention to F. R. Sykes, Mount Lebanon farm, for exhibit of potatoes and quinces.

To Charles W. Cox, gardener to Mrs. Clay Kemble, for exhibit of cucumbers.

To LaRoche & Stahl for floral steamship, composed of roses, chrysanthemums and violets.

To Hugh Graham for pink seedling.

To John N. May for yellow seedling.

ROBERT KIFT.

New York.

If a bright beginning counts for anything as an augury then the great chrysanthemum show of the New York Florists' Club, which opened at 3 p. m. on Monday, November 6, at the Grand Central Palace, will be a pronounced success, for no finer autumn day was ever recorded than the opening day of the exhibition. The entrance and interior of the hall was profusely decorated with hemlocks, southern smilax and laurel wreathing, and the exhibits were all in place when President Manda called his audience to order and with a word of welcome introduced Mr. Willis Holley, private secretary of Mayor Gilroy, who expressed his regrets that illness had prevented his chief from appearing in person, and in a few well chosen remarks formally declared the exhibition open and expressed his hearty wishes for its success. He was followed by Mr. J. N. May, who told briefly of the great progress made in the development of the chrysanthemum since its first appearance as a little stunted purple bloom in 1789, and especially during the past decade. He said that when he was a boy a bloom four inches in diameter was considered a great achievement, and paid a high tribute to the enterprise of American growers whose judgment and skill had been exercised to make such an advance in size, form, substance and constitution, and who were to-day acknowledged by foreign raisers to lead the world in chrysanthemum culture. Mr. May's remarks were vigorously applauded. Ex-Alderman Morris made the closing speech and brought down great applause by comparing the great development of the chrysanthemum in the free soil, free air and clear sunshine in America with the progress made by the human race under the advantages of American liberty, which is so great that like the chrysanthemum, after a few generations the average American would scarcely recognize his own ancestors.

The exhibition hall is far ahead of the Madison Square Garden in fitness for a flower show, and no exhibition in New York has ever made such an effective appearance. The arrangement of the groups was most pleasing and artistic and reflected great credit on the committee in charge, of which Mr. Keller was the head. Manager McCrowe also deserves great praise for the manner in which he accomplished the work of his difficult position.

As far as trained specimen plants are concerned it can not be said that the exhibition is in any way wonderful. Outside of Pitcher & Manda's groups there were very few exhibitors of trained plants, and of those that were shown many of the best had been shaken almost to pieces and practically ruined in transportation, while others that were otherwise good were disfigured by stakes unnecessarily heavy and needlessly numerous. The groups for effect made a brilliant display and massed up well against the green background, and some of those grown to single stem and flower bore very fine blooms. The principal exhibitors in these classes were Julius Roehrs, Pitcher & Manda, W. Bayard Cutting, Ed. Weimar, H. C. Willie, H. A. Molatsch. There were no exhibitors in the class of novelties of 1893 except Pitcher & Manda, and very few standards were shown.

It was in the cut flower department that the greatest competition took place. Here the giants met each other. Many of the classes had from six to nine entries and on some lots the judges decided with difficulty. Many of the exhibits were simply wonderful. Such blooms have never been seen here before and two years ago would have been considered impossible of attainment. It would seem that the limit to size, depth and color must be nearly reached, for it is not possible to imagine anything much more nearly perfect than many of these blooms.

The older varieties, such as Viviand-Morel, Widener and Mermaid, were finer than ever, and the two great new whites, The Queen and Niveus, as well as Ed. Hatch, Golden Wedding, Good Gracious and other recent introductions, marked the high water line of American chrysanthemum culture up to the present time.

Owing to the date at which we must go to press it is impossible to announce the results of the competition; this and much more interesting information regarding the exhibition is necessarily deferred until our next week's edition.

It was interesting to note the effect on the colors of certain varieties when the electric lights were turned on in the evening. The pure pinks, such as Maud Dean, Mermaid and Excellent, were richer than ever, and in the purplish tints, such as Louis Boehmer, all the purple disappeared. The deep orange and apricot varieties, Harry May, Mr. Hicks Arnold, Golden Gate and the like, fairly glowed with luminous light.

The leading exhibitors in the various classes for cut blooms were L. R. Powel, Dailledouze Bros., Julius Roehrs, Pitcher & Manda, Peter Henderson & Co.,



R. WITTERSTAETTER'S GROUP OF SINGLE STEM MARIE LOUISE (7-INCH POTS) AT THE CHICAGO SHOW.

Rudolph Asmus, Francis T. Underhill, John N. May, G. H. Hale, J. Condon, Charles Duniper, W. Slack and A. W. Elkstrom.

In the classes calling for vases of separate colors the following were the varieties apparently most popular in their respective classes. For whites: The Queen, Ivory, Minnie Wanamaker, Flora Hill. For yellows: Golden Wedding, Emma Hitzeroth, Mrs. Craig Lippencott. For reds: George Washington Childs, Cullingfordii. For pinks: Maud Dean, Viviand-Morel. There were some magnificent blooms shown on flats, but those in vases seemed to give the most pleasure to visitors.

In the department of cut roses the competition was light, being confined principally to F. R. Pierson Company and John N. May, both of whom showed the standard varieties in good shape. Mr. May's new pink rose, Mrs. Whitney, attracted much attention. In carnations all the favorites were shown. J. N. May, C. W. Ward, F. A. Storm, H. E. Chitty, C. H. Allen and other war horses competing sharply, and as deeply interested in this little diversion as though it was the principal part of the whole show. For the seedling prize J. N. May staged Helen Keller and C. W. Ward entered Storm King.

The large groups of decorative plants and specimen palms added much to the effectiveness of the general display. Julius Roehrs, Richard Brett, Pitcher & Manda, G. H. Hale and W. Anderson all showed superb specimens. Pitcher & Manda had no competition on orchids or nepenthes, of both of which they made a good display. The araucarias from Pitcher & Manda, J. M. Keller and Julius Roehrs, marantas from Pitcher & Manda and Richard Brett, lily of the valley from Julius Roehrs, cyclamens from G. Bergmann, dracænas from J. M. Keller, and a specimen plant of Cattleya labiata from G. H. Hale were all worthy of special note. John G. Esler showed a new begonia, a cross between rubra and nigricans, with very rich foliage, which he has named Hunnewell, in compliment to Mr. H. H. Hunnewell of Wellesley, Mass. H. Wipperman of Brooklyn has the privilege of selling flowers at the show and his booth, which occupies a large section of the hall and is presided over by half a dozen veritable goddesses, is a fine example of artistic decorative work.

The trade exhibit is held in a separate hall. Here are to be found the Chadborn Kennedy Company, with their automatic ventilator; D. H. Roberts, glass; Thos. W. Weathered's Sons, boilers; A. H. Hews & Co., pottery; H. Bayersdorfer & Co., florists' supplies; A. Herrmann, metal designs; Reed & Keller, wire designs; J. C. Meyer & Co., silkaline; and the Snow Rustic Manufacturing Co.

The dinner to the judges on Monday evening was a jolly affair. President Manda presided. The first speaker called upon was Mr. Keller, chairman of the exhibition committee, who received a boisterous welcome. Next, John N. May, who said that the flowers on exhibition excelled anything ever before shown in this country or elsewhere. Mr. McCrowe, manager of the exhibition, being called upon, remarked that he was not made for talking, only for work and generally gets enough of it. Mr. Mestanez, manager of the Industrial Building, pleaded bashfulness, and the company responded with "For he's a jolly good fellow." Chas. Dards was called upon as a representative of the retail trade and made a neat little speech, as did the veteran Charles Zeller, who said that it made him feel ten years younger to be in the company of his fellow florists. Eugene Dailledouze admitted that he wanted to say a few words, but didn't know how to talk. Ernst Asmus was with difficulty induced to talk. Boisterous calls for a story about a moose failed to have any effect, but he spoke in high praise of the show in progress. Mr. Tricker pronounced the show an artistic success. J. N. Gerard was introduced as one who grows chrysanthemums because he loves them, and told of how he first became interested in the flower at John Thorpe's show in 1882. Treasurer Weathered was the last speaker. The introduction of the genial Charlie was the signal for a big demonstration, and after it had subsided he made the best speech of the evening, upon the conclusion of which the whole company stood up and sang "For he's a jolly good fellow," which nobody can deny, to which Forsterman vociferously added "If he does he tells a lie."

Boston.

The Boston show is never famous for its size, but in quality is not often second. This year the rule still holds good. The cut blooms are a decided advance on those of former years and undoubtedly as good as the best exhibited anywhere. Everything is shown in vases, not a board to be seen. The plants are a surprise. There are four exhibitors either of whose speci-

men plants are easily the best ever exhibited here: Walter Hunnewell, Arthur Hunnewell, N. T. Kidder and Dr. C. G. Weld, all of these are private establishments. No commercial place could afford to give the time and attention necessary to produce such perfect specimens.

In Walter Hunnewell's collection, which took premiums, were magnificent specimens of such varieties as Mrs. Bishop, V. H. Hallock, A. H. Fewkes, Wm. Falconer, W. H. Lincoln, Mrs. Joseph H. White, Mrs. G. W. Childs, Mr. Hicks Arnold, Mrs. Joseph Rossiter, Louis Boehmer, Duchess of Connaught and Fascination. One plant of Goguac is a curiosity in its way. It has sported variously to bright pink and orange. The flowers of each color are well distributed over the plant and many of the individual blooms even are particolored.

In N. T. Kidder's collection, which came in second, the same varieties are largely represented. In Dr. Weld's lot, one variety, Edith Hollis, is particularly admired for its luminous shades of pink and gold, reminding one of the pink pond lily. William Falconer has sported with him and bears several bright lemon blooms. There are no plants in the hall that are offensively overstaked and all throughout are well foliaged clear to the bottom.

Dr. Walcott, the Bussey Institute, F. B. Hayes and W. H. Elliott are also large exhibitors. Mr. Elliott's are as usual handsome stocky little plants just right for retail sales for window and hall decoration.

The cut flowers occupy the entire lower hall. All the well known New England growers are represented. John Simpkins, E. A. Wood, Mrs. A. D. Wood, Edmund M. Wood & Co., Joseph H. White, C. V. Whitten, T. D. Hatfield, Dr. Weld, Wm. Edgar and F. B. Hayes are there and several others besides.

The silver cup offered by Miss Simpkins for the best twelve blooms of any pink variety was won by E. M. Wood & Co. with Viviand-Morel.

The Hatch prizes for best and second best vase of twenty yellows were won by C. V. Whitten and Wm. Edgar respectively, both competitors staging Lincoln.

In the cut bloom section Golden Wedding, Mrs. Jerome Jones, Niveus, Vesuvius, Ada H. Leroy, H. L. Sunderbruch, Olga, Mermaid, Ermenilda, Mrs. A. J. Drexel, Mrs. Phipps, Jr., T. C. Price, Ed. Hatch, Marie Louise, Lilian B. Bird, Viviand-Morel, Eda Prass, Violet Rose and Fascination, were among the varieties which seemed to have attained the greatest perfection.

The exhibits of long stemmed blooms in large vases were grand. C. V. Whitten, Edmund M. Wood & Co. and John Simpkins were the largest exhibitors in these classes and to them went most of the big premiums. C. V. Whitten's Morel, Ivory, Lincoln and Pelican were great, as were also Harry Balsley, Joey Hill, Golden Wedding, Roslyn and others in E. M. Wood & Co's. display, while Niveus and Mrs. Jerome Jones from John Simpkins were the most admired blooms in the hall.

In the classes for vases of ten blooms each in separate class, first premiums went to the following varieties: For red, Cullingfordii; for pink, Harry Balsley; white, Mrs. Jerome Jones; yellow, Golden Wedding.

Exhibits of seedlings and novelties are quite extensive and of such importance that we defer our account of them with the various awards until next week's issue. There were some nice carnations from J. A. Foster and Wm. Nicholson and mignonette from William Edgar. J. N. May sent some fine blooms of the new carnation Helen Keller, and the new rose Mrs. W. C. Whitney, both of which attracted much attention.

J. F. Huss exhibited two large frames of beautifully skeletonized leaves and seed vessels perfectly preserved in every delicate part and most artistically arranged.

Judging New Chrysanthemums.

It has been suggested to us that we say a word regarding the necessity of arrangements whereby exhibitions may be held at such dates as to cover the whole chrysanthemum season so that seedlings may be judged when at their best, whatever date that may happen to be. It is suggested that exhibitions for the judging of seedlings be held as nearly as possible on October 25, November 7 and November 25.

The suggestion is certainly a timely one and it seems to us that it is properly a matter for consideration by the National Chrysanthemum Society of America. If taken in hand by this society the work would have an authoritative stamp that is essential to give the judgments the force and effect they should have.

It might be difficult to arrange for a general exhibition at so early a date as October 25, but we see no reason why a mere trade display could not be arranged for at that date in some of the larger cities at very slight expense and where early seedlings might be entered in competition under rules to be determined by the society, and judgment given on same by experts selected carefully for the purpose.

For the midseason seedling competition arrangements could easily be made with the managers of some of the established annual exhibitions, who would probably be glad to offer cash prizes under the direction of the national society, the judging of the seedlings to be done by judges selected by it.

For the late seedlings a mere trade display could be held on the same plan as that for the early ones.

Certain it is that the National Chrysanthemum Society of America should make some decided practical move looking to the sifting out of poor sorts and the prevention of the dissemination of new varieties that are not superior to existing ones of similar types. This can be done only by making it easy for the introducers of really valuable novelties to procure the indorsement of the society. The opportunity will be quickly embraced and as a result buyers will look with suspicion upon any sort that has not been submitted for judgment and secured favorable consideration.

These judges should be men of unquestioned integrity and thorough familiarity with the chrysanthemum family and not in any way interested in the dissemination of new sorts. At first blush it may seem difficult to get such a board of judges, but we can name two off hand that meet every requirement of the case. They are Elijah A. Wood, West Newton, Mass., and Edwin Lonsdale, Chestnut Hill, Philadelphia, Pa. A board of three judges would surely be sufficient and a third member could readily be selected from among the numerous private gardeners who grow for exhibition every year.

This matter is such an important one that we shall be seriously disappointed if preparations are not begun at an early date for the carrying out of this or some similar plan for the season of 1894.

The Ideal Chrysanthemum.

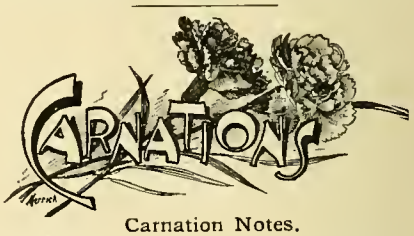
Last Tuesday we asked Mr. E. A. Wood, president of the National Chrysanthemum Society of America, and now generally acknowledged to be the best authority on the chrysanthemum in this country, to describe his ideal flower—the flower that we should aim to work up to. He replied:

"My ideal is a bloom six or seven inches in diameter and nearly the same in depth, of good symmetrical form, full to the center with no show of an eye of any kind, petals of fine texture and good substance showing no coarseness, of good bright color without a suspicion of streakiness, borne on strong stiff stems bearing dark green healthy foliage, flower stalk (the part of the stem from flower to first leaf) not too long."

Speaking further he said that Ivory came the nearest to his ideal of any existing variety. He deprecated the tendency to run to very large, flat, coarse flowers, and expressed the belief that the desirable limit in size had already been passed. We must now work for form, fineness in texture and finish. Very few have any use for a flower as big as a cabbage.

In response to an inquiry for some points as to methods of "building" flowers (giving them extra depth), he said it was quite impossible to convey in words any instruction of value. Preparations for this should be made when the plant is started and depended upon the variety in each case. The great point is to have the wood at the proper degree of ripeness before starting the special feeding, and this can be determined only by personal experience over a number of years with the particular variety in hand and under your special cultural conditions. But when you have the experience you can take most any flower and increase its depth to a remarkable extent.

The science of chrysanthemum culture is really still in its infancy.



Carnation Notes.

Chrysanthemums are now upon us, and this Queen of Autumn is such a despot that all the rest of the floral kingdom have to submit to her sway. The best thing for us carnation men to do is to submit cheerfully, curtail our cut and prepare the plants for a good crop in December and January.

A good plan now when you are pulling your flowers, is to pluck along with them the weak stems that are making buds. You do not need any but extra good flowers, and pulling the poor ones will throw the extra vigor into the plants. In pulling these buds do not take much of the foliage with them, as robbing a plant of its foliage will injure its root development, and plenty of good working roots are an important feature in successful carnation culture.

Do not in the hurry of chrysanthemum time allow these to crowd out necessary work among the carnations. If the weeds grow, out with them; if the plants need tying up, do it; for a little extra care and labor right now will be amply repaid by your holiday crop. One is sometimes apt to forget that the plants are now putting up those stems that will make the Christmas crop if they are properly handled.



PARTIAL VIEW OF MR O. P. BASSETT'S DISPLAY OF PLANTS AT CHICAGO, WITH GROUP OF SINGLE STEM IVORY (IN 6-INCH POTS) IN THE FOREGROUND.

It is well to guard against all extra stimulation at this time, keep your houses moderately cool, say about 50°, not very wet, and keep all of your extra feeding either by manure water or solid fertilizers away from the plants; that is if your plants are good and strong. If they happen to be away behind, as some are this season on account of the drouth, it is better to keep them pushing along moderately, the object being to have a good sized plant about December 1, well hardened, so that it can stand the extra forcing which almost every grower gives his plants over the holidays, without serious injury.

If your flowers do not bring you good returns now, don't abuse your commission man unless you have evidence that you are being treated unjustly; then go for him hot. Lay your plans for the winter and get ready for the trade that is coming when chrysanthemums begin to wane. There is a time for all things, and our time is not far off. A. M. HERR.

Carnation Notes.

I have read the article on carnations by Mr. Herr with great interest. On some points I do not agree with him. In speaking of syringing I would not advise any one to attempt to syringe any variety after 3 p. m. from this out. I make a practice of syringing my houses at noon every day, and have found that by so doing I obtain the best results. In regard to planting too deep, I don't see how any man is going to do it unless his benches are of an unnecessary depth, or his plants in the lot very near the surface of the ground. With benches four inches deep it is almost impossible for it to occur.

If you wish to have fine flowers and long stems now is the time for you to disbud; in disbudding you must take the side buds off as soon as you can get at them, for if you leave them until they have grown to any size you might as well leave them on for all the good it will do in taking them off.

I can not see what benefit there is to be derived by not watering until your benches are dried out, on the contrary I find it keeps the plants back. I try to keep my benches about the same all the time, neither dry or wet. You do not wait until you are about starved before you eat; so it is with watering carnations, they want to be kept about the same way, neither dry or wet. You will find that the plants will take root faster under these conditions than any other. I have tried both plans and have had it demonstrated to my satisfaction that it is the best. Try it for yourself and see. When you find that your plants have taken a good hold you should begin to water them with manure water about once a week; you will be amply repaid for your trouble I can tell you.

I would advise to begin smoking before the greenfly has made its appearance, as I have found to my sorrow that smoking is a better preventive than cure. "An ounce of prevention is worth a pound of cure." FRED. A. STORM.

Bayside, N. Y.

Mr. Storm has misunderstood me on a few points, and I hope any other of my readers who disagree with me will criticise freely, as we can often thus learn from each other. Often what is meat for one will be poison for another, but there may be something in between that will be good food for both.

In syringing and smoking we both agree, only we express ourselves differently. Planting too deep can not well be done on a bench with four inches of soil, but it can easily be done on a solid bed, and a great many growers are using the solid bed system in preference to benches for many varieties.

Watering is a fine art and should be every grower's study until he finds out just how to handle his soil. If I were to adopt Mr. Storm's idea and keep my beds and benches constantly moist the soil would sour, and a sorry looking lot of carnations could be seen here. In this as in everything else there are extremes to be avoided, a plant should not be left to starve before giving it water, there is a vast difference between leaving a plant suffer for water and allowing it to get dry. When I first started into business, which was with the second volume of the FLORIST, I noticed an article by Mr. John Thorpe advocating "first leave your plants get dry and then water well." I adopted the plan then and have found no occasion to change since. Another point in favor of this method with me is that the flowers will stand shipping better if not grown too moist; my flowers have to stand a 24 to 30 hour journey before they even are in the hands of the dealer. Where you are only an hour or two from market and the flowers are used the same day they are pulled this is of course no item. Mr. Storm's soil may not be suited to the same treatment as mine, which is a rather heavy soil, but drains well nevertheless. In taking advice from any one it is well to temper it to your own conditions. A. M. HERR.

Chester County Carnation Society.

Despite an extremely stormy day a few of "the faithful" were in attendance at the regular meeting November 4. Mr. Davis had recently returned from a vist to New York and vicinity and reported carnations generally looking well; a few growers reported Daybreak not doing well after moving indoors.

The subject of gold medal to be awarded at Indianapolis was further discussed and a final decision deferred for another month.

Some fine specimens of seedlings were shown from the houses of Mrs. Cowan. E. Swayne showed specimens of Wm. Scott, Edna Craig and Nancy Hanks, all fine flowers. The latter would seem to be more worthy of cultivation than has been the case in this locality. C. J.

Satisfactorily Adjusted.

We have received a note from Messrs. C. H. Bliss & Sons, Ashtabula, O., advising us that the carnation transaction about which they asked advice through our columns has been adjusted to their entire satisfaction, and requesting us, in view of the mention of Mr. Chitty's name in the former article, to announce to the trade that Mr. Chitty willingly did what was right in the matter as soon as the point of responsibility was settled.

Miscellaneous Seasonable Hints.

The weather has been so unusually fine the past month that Roman hyacinths that were boxed early are now showing their green leaves above the covering of earth. Don't put on the covering of manure yet, or the leaves will freeze into it when severe weather comes. Add a little more fine earth now, just enough to keep the points of the leaves out of sight.

Geranium and other flower beds have only within a few days become unsightly, and the planting of tulip beds has in many cases been very late this year. I do not advocate the planting of tulips after the middle of this month, but still it can be done much later with good results. I remember last fall planting a bed of the best varieties of tulips about the 10th of December. We had had a severe cold spell, and this was during a short thaw. I was doubtful of the result, but as a consolation to those who should get belated with an order of this sort I can say they were at the usual time of flowering all that could be desired. In planting the tulips or hyacinths, unless the soil is unusually mealy and light, don't trust to your getting the bulbs deep enough in the ground by simply a squeeze down with your fingers; you can't get them deep enough. Plant with a trowel; it's about as quick, and get them down five or six inches. By the time the frost is out of the ground you will find they will be much nearer the surface. Don't cover right off with straw manure; wait for good winter weather for that.

Don't forget in localities where there has been little or no rain for the past month that your forcing tulips that are outside or in boxes and covered with two or three inches of earth will need a good soaking occasionally, or they won't root fast, and the chief help in getting good early (January) tulips is to get them well rooted.

Poinsettias, which are now developing their bracts, are great feeders and soon exhaust the soil in a 6-inch pot, and will with all the heat you can give them soon begin to show their exhausted state by losing their bottom leaves. They must have liquid manure twice a week. It will greatly help foliage and flower.

The main crop of young geraniums that were propagated in September will now be well rooted, and as you stood them as close together as possible when first potted, they should have a "stand over" and pick over. This simple operation may seem (where there are many thousands grown) a formidable piece of labor to those not in the business, but in reality the cost is so trifling that it pays to do it often. I am within the limit when I say that two smart greenhouse lads should easily clean and stand over five or six thousand of these plants in a day. I have seen men (gardeners), old enough to know better, when moving over plants, raise the little object to about the level of their eyes, their body being in a perpendicular position all the time. After turning the plant round once or twice they decide which leaf shall be rubbed off, and then after a farewell look set the plant very carefully down, leaning a little to one side. One of the first operations I would (and do) show a boy how to do whom I want to teach is to set over plants quickly on straight rows, and the pots level; all such operations as this (simple as they are when learnt), potting and putting cuttings in the sand, should be done with great rapidity, or there is not much money in it.

An enquirer without signature wants to know what to do with cyclamens in 3 inch pots showing bud, but he does not want them to flower. Don't pinch the buds out; they won't pay to grow over another year. You can raise better and more salable plants from seed sown now for another winter. Shift them into 4-inch pots or 4½-inch at once. If kept below 50° they will come on slowly and be useful plants for Easter.

"Mr. A. O. of Quincy" wants to know the best remedy for mealy bug. There is no excuse for having mealy bug on any plant that will stand hard and frequent syringing with water from the hose. If this is attended to they will soon disappear. Some plants won't admit of this. Then a kerosene emulsion applied with a sponge or soft brush will soon fix the bug. Mix one-fourth part of kerosene with a pail of milk; keep it thoroughly stirred, or beat up for twenty minutes or until it is entirely mixed, then add two gallons of water and you have the emulsion. WM. SCOTT.

Buffalo.

New York.

The all-engrossing subject at present is the great chrysanthemum show at the Grand Central Palace. The interest is apparently wide spread, for a great many visitors are in town on purpose to see the show. It is to be hoped for their own comfort and peace of mind that these visitors will arrange to get their mail otherwise than through the uptown postoffice at 28th street and Seventh avenue, for if it once gets into the clutches of the grand inquisitor of this antediluvian establishment they will have neither time nor temper left with which to enjoy the exhibition.

The cut flower trade has not improved any yet. Everything is very abundant and customers are scarce. The exhibition will help to unload the great stock of chrysanthemums which have accumulated, and which it would be difficult to turn into money in any other way.

We learn from the daily papers that a young man from the fashionable circle, Rawlins Cottonet by name, has opened a flower shop on Fifth avenue, with the laudable object of replenishing his purse from the handsome profits which this business is reputed to furnish. His brother florists, if we may so designate them now, seem to have made no note of this wonderful event, and there is not a ripple on the surface to mark Mr. Cottonet's advent, but the daily papers have made a nine days' wonder of it. Some applaud the young man and call him brave. Yes, he is brave, but he doesn't know it yet. Wait till some of his Fifth avenue associates send back a box of roses with the information that they are "stale and dropped to pieces as soon as taken from the box," or return a plant because it is "not what I ordered," or skip to Europe for a year's sojourn, leaving the winter's account unpaid, or the Greeks come in to shake hands and enquire "how's business," or he slips up on a calla stem while waiting on a pretty customer and spoils the knees of his new trousers by contact with the slippery floor. Yes, then, and not till then, will Mr. Cottonet realize how brave he is.

On Sunday afternoon a banquet was given to press representatives at the Grand Central Palace. About fifty were present, including the officers of the New York Florists' Club. Short speeches were made by Messrs. W. A. Manda, P. O'Mara, W. J. Stewart, John H. Taylor and several of the representatives of the New York daily papers.

Philadelphia.

There does not begin to be business enough to use up the supply of flowers that are being brought into this market every day. Prices, except in chrysanthemums, do not alter very much, for as the growers say, "What's the use; the stores wouldn't take any more stock; they only buy what they want, no matter what the price is, and we had better take back what is not sold than kill our market for the next day."

With 'mums it is different; their season is comparatively short, and great bargains are to be had every day if a dealer shows any inclination to buy. The best flowers are now sold for $2 per dozen, very good ones $1.50 to $1, and after that so much a lot or bunch down to 25 cents for bunches containing fifty or more small flowers. Widener and Lincoln are just coming in and Mrs. C. Lippencott is about done. The last number of the FLORIST contains in the Boston notes a reference to the latter variety, speaking of it as being a "hairy yellow"; your correspondent is in error here, as this fine variety has smooth, broad petals, with none of the peculiar growth seen in the Mrs. Hardy type. Mr. Harris is in luck again, he having a new variety which can be best described by calling it a pink Ivory, it being identical with this variety in every respect, excepting color, which is a shade darker than Ada Spaulding. Roses are very plentiful, as are all other flowers, and prices remain the same as last week. Roman hyacinths are in, Caspar Pennock having the first, while the first paper white narcissus were sent in by S. Edwards of Bridgeton, they being $4 per hundred.

The chrysanthemum show promises to be a grand success, the only drawback being that the Armory building will not be near large enough to contain the various collections. The entries in all the departments are very large and the committee of arrangements will certainly have their hands full before everything is arranged satisfactorily.

Mr. Heebner, connected with the Market street National Bank, who bought in the personal property at the time of the LaRoche & Stahl sale has turned this property into a stock concern, called the LaRoche & Stahl Flower Co., Limited. The partners in the company are S. Y. Heebner and Messrs. LaRoche & Stahl, the capital being the personal property contributed by Mr. Heebner, which is estimated to be worth $2,000, and to which sum only the company holds itself liable.

It is all very well to be ambitious, but it must be kept within bounds; Pennock Brothers were so ambitious to have a large wagon that when it was brought to the stable it would not go in the door, and the floor had to be lowered to effect an entrance.

Sunday the 12th inst., under direction of John Westcott the boys gathered at the Armory where the exhibition is to be held, and soon transformed the interior and changed its war-like appearanee. Autumn boughs, laurel branches, spruce, laurel wreathing and wild smilax were the principal greens used. The cut flowers will be arranged on tables down stairs in the parlors, while the plants will be placed in the hall ways and the drill room in the second story.

W. J. Baker and his team having defeated the Kift faction three matches in succession a new deal was made and Messrs. Brown and Crawford are to captain two teams. K.

Boston.

As the time for the shows approaches, chrysanthemums are coming in in increasing quantities and finer quality. In former years it has been urged as a reason for not exhibiting, that fine blooms would bring more money in the market than the value of any prizes which they might win at an exhibition. This view is not likely to be advanced this present season unless a very great and most improbable change should develop soon, for so far fancy prices have no existence. Roses, carnations and violets are still as reported last week, in over supply with little prospect of immediate improvement.

About a dozen gentlemen representing the various working committees of the Massachusetts Horticultural Society visited some of the Wellesley private gardens on Friday. They found Mr. Hatfield and Mr. Coles, gardeners to Messrs. Walter and Arthur Hunnewell respectively keeping a good natured eye on each other's specimen plants which are to be entered in competition at the coming Boston show. Both collections are a credit to their growers. Mr. Hatfield has a number of promising seedlings and some of last year's novelties are showing up in fine form.

At Mr. H. H. Hunnewell's, Mr. Harris has the conservatory filled with a brilliant grouping of chrysanthemums. There is also a magnificent show of Cattleya labiata and other seasonable orchids. Lælias and winter blooming cattleyas are just bristling with buds. The rhododendrons have made a good growth the past season and are unusually well set with buds for next spring.

The chrysanthemums at Waban Conservatories are wonderfully fine. As they will be heard from in the report of the Boston exhibition a description of the best varieties is unnecessary here. Mr. Montgomery has located one cause of the trouble with Golden Wedding, which is doing so poorly with most of our growers, in a minute white insect which infests the underside of the leaves and has never been seen here before. The Mermet and Bride houses have never been in finer condition here than at the present time.

Joseph Tailby has several promising seedling carnations. One white one which he has named Wellesley is a fine high-centered flower in the way of Lizzie McGowan but larger and more regularly formed than that popular variety.

Elijah Wood has gone to Chicago and Denver, where he has been invited to act as a judge at the chrysanthemum shows in those cities.

Mr. G. L. Grant, of Chicago favored us with a short visit last week.

W. H. Elliott's new asparagus house is thirty-three feet in height.

The Gardeners' and Florists' Club has elected officers for the ensuing year as follows: P. Welch, president; W. H. Elliott, vice-president; L. H. Foster, secretary; Edward Hatch, treasurer; Executive Committee: W. J. Martin, Geo. A. Sutherland, John Walsh, J. A. Carroll.

Thompsonville, Conn.

Robert McCrone, the veteran florist and gardener who died here on October 30, was a most eccentric character and has been for years one of the best known men in the Connecticut valley. Notwithstanding his peculiarities, he was highly respected by all who knew him and beloved for his many estimable qualities of mind and heart by every one with whom he came in contact. His cheerfulness in adversity was well illustrated at the time of the great blizzard, which wrecked his houses and brought him face to face with conditions which would have completely discouraged many a younger man, but not a word of complaint passed his lips. His age was 73.

BROOKLYN, N. Y.—Chas. Krombach is holding a chrysanthemum show of his own at his greenhouses on 9th avenue. He inaugurated the exhibition November 1 and will continue it till the 12th.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By a practical florist, willing and able to do any kind of greenhouse work; can take full charge of commercial place. Good recommendation. Address Box 551, Batavia, Ill.

SITUATION WANTED—By a foreman. Specialist in growing roses. In a place of 25,000 or 30,000 square feet of glass; also a good carnation or violet grower; first-class place wanted. State wages and particulars. Address J K, care American Florist, Chicago.

SITUATION WANTED—By first-class florist, rose and cut flower grower, propagater of general florist stock; 19 years' experience; German, married. Private or commercial. Best of references. Address S S, care Mrs. Hedinger, 276 Jay St., Rochester, N. Y.

SITUATION WANTED—As manager or foreman; thorough, practical grower of roses, carnations, violets, decorative and bedding plants, forcing of bulbs. Private or commercial. References European and this country. State wages, etc. D. NELSON, 6454 Lexington Ave., Woodland Park, Chicago.

WANTED—A good man to grow fine flowering plants, bulb stuff, etc. Address with reference. JNO. E. ROSE, 105 E. Broad St., Richmond, Ind.

WANTED—Sober, reliable young man for assistan in our greenhouses. Good board can be had from $3.00 to $4.00 per week. Address GEO. A. KUHL, Pekin, Ill.

FOR SALE—1,200 feet 4-inch pipe and fittings (Weathered make), as good as new. MRS. GEO. WALDBAUER, Saginaw, Mich.

FOR SALE.

Wishing to retire from active business, I will sell the largest retail florist business in Union county. Store fixtures, good will and everything in retail department. Business city of 40,000 inhabitants. Full particulars upon application to

JOHN WHITE, 87 Broad St., Elizabeth, N. J.

For Sale.

My stock (20 shares) in Probst Bros. Floral Co. For particulars, write

SAMUEL MURRAY,
1017 Broadway, KANSAS CITY, MO.

SITUATION WANTED.

As manager or superintendent on commercial or private place, by a thoroughly practical florist of 9 years' experience in the East and West in growing and forcing of bulbs, plants, cut flowers, etc. of every description. I am German, 27 years old; able stenographer, bookkeeper, typewriter and fine penman, corresponding in German and English. Pushing and energetic; want engagement at once. No reasonable offer will be refused. First-class references. Address S. HERZOG, 611 Pine St., San Francisco, Cal.

FOR SALE.

Rose and Carnation Growing Establishment: also well adapted to Smilax and Asparagus.

Several acres of ground; 15,000 feet of glass; substantial buildings, with all modern improvements, only five minutes from center of city of 30,000 population, convenient to New York and Philadelphia. Will be sold for much less than cost of erection; terms easy.

Address EASTERN, care American Florist.

Rooted Cuttings

COLEUS, 10 sorts, 60c. per 100
BY MAIL.

SAMPLE DOZEN, without names, mailed for 10 cts.

S. O. STREBY,
Lock Box 77,
UPPER SANDUSKY, OHIO.

CLEMATIS.

Large flowering, colors in variety, double and single, strong blooming plants. Plenty of Jackmanni and Henryi, best purple and white, $3.00 per dozen; $20.00 per 100. Send for list.

CYCLAMEN persicum splendens, blooming bulbs, $8.00 per 100.

Snowflake Daisy, double white, $1.00 per 100.

Longfellow Daisy, double red, $1.00 per 100.

F. A. BALLER, Bloomington, Ill.

P. SEBIRE & SONS,

Nurserymen, USSY, Calvados, FRANCE.

A general assortment of Fruit Tree Stocks, such as Apple, Pear, Myrobolan Plum, Mahaleb and Mazzard Cherry, Angers Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, etc. The largest stock in the country. Prices very low. Packing secured. Catalogue free. Send for quotations before placing your order elsewhere. Agents for U. S. America and Canada.

C. C. ABEL & CO., P. O. Box 920, New York.

100 % PROFIT and no risk in taking subscriptions for GARDENING from your customers. Write for particulars.

THE GARDENING CO., Monon Bld'g, Chicago.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Chrysanthemum Shows.

Springfield, Mass., Nov. 14-16—Hampden County Hort. Society. Joseph Booth, Sec'y, care of Springfield Institution for Savings.
Washington, Nov. 14-17—Florists' Club of Washington. G. W. Oliver, Sec'y, 1844 8th St., N. W.
Denver, Colo., Nov. 15-18—Denver Florist Club. Lyle C. Waterbury, Sec'y, University Park, Col.
Toronto, Ont., Nov. 21-24—Toronto Gardeners' and Florists' Association. A. H. Ewing, Sec'y, 85 Carlton St

SIOUX CITY, IA.—J. C. Rennison is holding a chrysanthemum show in the parlors of the first Congregational Church and will continue same to the 11th inst. He has on exhibition over 1,000 plants in over 30 varieties, and from 500 to 800 cut blooms. The church society supplies ticket sellers, attendants at flower booths, etc., and receives 25% of the receipts. In addition to chrysanthemum plants and flowers he displays table, mantel and wedding decorations. Music is supplied by a harpist. The exhibition is being liberally advertised in the daily press and by chrysanthemum posters, and prospects for financial success are good.

Always mention the American Florist when writing to advertisers.

Cut Blooms
OF
CHRYSANTHEMUMS.
Mrs. Jerome Jones,
L. C. Madeira,
and many other finest sorts. Per dozen $3.00.
VAUGHAN'S SEED STORE,
26 Barclay St. Box 688,
NEW YORK. CHICAGO.

W. ELLISON,
WHOLESALE
Cut Flowers AND Florists' Supplies
1402 PINE STEET,
St. Louis, Mo.

SAMUEL S. PENNOCK,
Wholesale Florist
REMOVED TO REAR OF 42 S. 16th ST.,
Philadelphia, Pa.

J. B. DEAMUD & CO.
Wholesale Cut Flowers.
Chrysanthemums, Valley, and the finest stock of Roses in the market.
All shipping orders are filled from fresh cut stock of our own growing.
LILIUM HARRISII READY NOVEMBER 20.
45 Lake Street, CUT FLOWER EXCHANGE, CHICAGO.

"JACQ" ROSES the Year Around.
We are now Cutting THOUSANDS DAILY of
METEOR ROSES.
The finest Crimson Summer Rose, equal to "Jacq" in color and far superior in keeping qualities. Can supply it in quantity at all times. Prices on application.
F. R. PIERSON COMPANY,
Tarrytown-on-Hudson, N. Y.

CHRYSANTHEMUMS that have no superior
VALLEY that can't be beat—it is fine.
ROSES, all varieties first-class.
CARNATIONS in variety.
ADIANTUM, ASPARAGUS and all flowers in season.
Send in your orders; I can fill them; and will properly pack and ship on time.
CORBREY & McKELLAR,
WHOLESALE AND COMMISSION FLORISTS,
PHONE, MAIN 4508. 45 Lake St., CHICAGO.

FOR DECORATING, NOTHING CAN EQUAL
ASPARAGUS PLUMOSUS NANUS.
CUT STRINGS 8 TO 12 FEET LONG, 50 CTS.
12 TO 18 FEET LONG, $1.00.
Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.
W. H. ELLIOTT, Brighton, Mass.

WHOLESALE FLORISTS
La Roche & Stahl
N. E. CORNER
13th & Chestnut Sts.,
PHILADELPHIA.

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
WHOLESALE
FLORIST,
1122 PINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

CUT FLOWERS.
Novelties and New Introductions in
ROSES AND CHRYSANTHEMUMS.
Fine Exhibition Stock.
THOS. YOUNG, JR.,
WHOLESALE FLORIST,
20 WEST 24TH ST., NEW YORK.

DAN'L B. LONG,
COMMISSION • FLORIST,
495 Washington St., BUFFALO, N. Y.
FORCING BULBS, FLORISTS' SUPPLIES, LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO.

	Per 100
Perles, Niphetos, Gontier	$ 2.00@$ 3.00
Bride, Mermet, La France, Victoria	3.00@ 4.00
Testout, Meteor	5.00@ 6.00
Am. Beauty	10.00@ 18.00
Roses, our selection	3.00
Carnations, long	1.00@ 1.50
" short	.50@ 1.00
Valley	4.00@ 5.00
Chrysanthemums, common	2.00@ 6.00
" fancy	8.00@ 30.00
Smilax	15.00@ 18.00
Ferns	per 1000 $2.50. .30
Adiantum	1.00
Fresh Cycas leaves	$1.00 each.

Western Agent for the GREAT ANTIPEST.

Kennicott Bros. Co.
WHOLESALE CUT FLOWERS,
34 & 36 RANDOLPH STREET,
CHICAGO, ILL.
WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist,
126 Dearborn St., CHICAGO.
Agent for finest grades Waxed and Tissue Papers.

NILES CENTER FLORAL CO.
Incorporated.
WHOLESALE GROWERS OF
CUT FLOWERS of ALL KINDS
and Dealers in FLORISTS' SUPPLIES.
In Chicago Cut Flower Exchange,
45 Lake Street, CHICAGO.

WHOLESALE FLORISTS,
JOBBERS IN . . . FLORISTS' SUPPLIES, FLORISTS' VASES.
METS, BRIDES, GONTIERS, CARNATIONS, ALWAYS ON HAND.
1 Music Hall Place,
BOSTON, MASS.
HORTICULTURAL AUCTIONEERS. . .

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St., BOSTON, MASS.

H. L. SUNDERBRUCH,
Wholesale Florist
4TH AND WALNUT STREETS,
Cincinnati, O.

CUT SMILAX,
15 cts. per string till November 1st. Quality first-class. Special attention to orders by wire.
J. E. BONSALL & SON, 308 Garfield Ave., Salem, O.

Wholesale Markets.

Cut Flowers.

NEW YORK, Nov. 6.

Roses, Gontier, Perle, Cusin, Watteville	.50@ 2.00
" Mermet, Bride, Hoste	.50@ 3.00
" Bridesmaid, Augusta Victoria	1.00@ 5.00
" Testout, Meteor, La France	1.00@ 5.00
" Beauty	5.00@25.00
Carnations	.30@ 1.00
Chrysanthemums, selected	8.00@15.00
" small	1.00@ 3.00
Violets	.25@ 1.00
Valley	2.00@ 3.00
Harrisii	15.00
Smilax	8.00@12.00
Adiantums	1.00
Asparagus	50.00

BOSTON, Nov. 6.

Roses, Gontier, Niphetos, Perle, Sunset	1.00@ 2.00
" Bride, Mermet	1.50@ 2.00
" Meteor, La France	2.00@ 4.00
" American Beauty	8.00@12.00
Carnations	.50@ 1.00
Chrysanthemums	2.00@10.00
Lily of the valley	4 00
Tuberoses	.50@ 1.00
Violets	.25@ .60
Smilax	12.00
Adiantum	1.00
Asparagus plumosus	50.00

PHILADELPHIA, Nov. 6.

Roses, Perle, Gontier, Niphetos	1.50@ 2.00
" Cusin, Watteville, Hoste	1.50@ 2.00
" La France, Mermet, Bridesmaid	3.00@ 4.00
" Bride, Testout	3.00@ 4.00
" Meteors, Kaiserin	4.00@ 6.00
" Belle, Beauty	12.00@16.00
Carnations, long	1.00@ 1.25
" short	.75
Violets, per 100 bunches, single	3.00@ 4.00
" double	.50
Chrysanthemums, first choice	16.00
" second choice	8.00@12.00
" sprays, per 100 flowers	2.00@ 3.00
Valley	3.00@ 4.00
Mignonette	1.00@ 2.00
Bouvardia, heliotrope	1.00
Roman hyacinth	4.00
Paper White Narcissus	4.00
Smilax	12.00@15.00
Asparagus, per bunch	.50
Adiantum	1.00@ 1.50
Mushrooms, per pound	.50@ .80

CHICAGO, Nov. 8.

Roses, Perle, Gontier, Niphetos	2.00@ 3.00
" Bride, Mermet, La France	3.00@ 4.00
" Kaiserin	3.00@ 4.00
" Meteor, Testout	5.00@ 6.00
" Beauties	8.00@20.00
Carnations, long	1.00@ 1.50
" short	.50@ 1.00
" fancy	2.00
Valley	4.00@ 5.00
Romans	4.00
Chrysanthemums, common	2.00@ 6 00
" fancy	8.00@50.00
Violet double	1.00@ 1.50
Smilax	15.00@18.00
Asparagus	60.00

ST. LOUIS, Nov. 6.

Roses, Gontier, Perle, Niphetos	2.00@ 3.00
" Bride, Mermet, La France, Hoste	3.00@ 4.00
" Wootton	2.00@ 3.00
" Meteor	3.00@ 5.00
" Beauty	5.00@20.00
Carnations, short	.75@ 1.00
" long	1.00@ 2.00
Chrysanthemums, common	2.00@ 6.00
" fancy	10.00@30.00
Smilax	12.00@18.00
Adiantum	1.00@ 1.25
Ferns, fancy	.20

CINCINNATI, Nov. 6.

Roses, Beauty	5.00@15.00
" Mermet, Bride, La France	4 00
" Perle	3.00
Carnations, long	1 00
" short	.50
Chrysanthemums	5.00@ 25.00
Valley	4.00
Smilax	15.00
Asparagus	50.00@75.00
Adiantum	1.00@ 1.25
Cyclamen plants, per doz	6.00@12.00

BUFFALO, Nov. 6.

Roses, Beauties	12.00@20.00
" Mermet, Bride, Meteor	4.00@ 5.00
" Testout, La France	5.00@ 6.00
" Gontier, Niphetos, Hoste, Perle	3.00@ 4.00
Valley	5.00
Violets	.75
Carnations, long	1.00@ 2.00
" short	.75
Chrysanthemums	5.00@15.00
Smilax	12.00@15.00
Asparagus	50.00

GEORGE A. SUTHERLAND,
SUCCESSOR TO
PECK & SUTHERLAND,
Successors to WM. J. STEWART.
CUT FLOWERS
and Florists' Supplies.
WHOLESALE.
67 Bromfield St., BOSTON, MASS.

BURNS & RAYNOR,
29 West 28th Street,
NEW YORK,
Wholesale Dealers in and Shippers of
Choice Flowers
OUR SPECIALTIES:
Chrysanthemums, American Beauties, Meteors.

WALTER F. SHERIDAN,
· WHOLESALE ·
FLORIST,
32 West 30th Street, NEW YORK.
Roses Shipped to all points. Price list on application.

JOHN YOUNG,
Commission Dealer in
CUT FLOWERS.
WHOLESALE.
53 WEST 30TH ST., NEW YORK.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS,
51 W. 30th St., NEW YORK.

JAMES HART,
WHOLESALE FLORIST,
117 W. 30TH ST., NEW YORK.
The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHRS,
WHOLESALE
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.
Established 1879.

MILLANG BROS.,
Wholesale Florists,
17 WEST 28TH STREET,
NEW YORK.
BRANCH: Cut Flower Exchange, 408 E. 34th Street.

MICHAEL A. HART,
Wholesale AND Commission Florist
113 WEST 30TH STREET,
· · · NEW YORK.
THE FINEST ROSES AND CARNATIONS.
Branch, at Cut Flower Exchange, 408 E. 34th St.

Edward C. Horan,
34 W. 29th Street, NEW YORK,
WHOLESALE FLORIST.
Careful Shipping to all parts of the country.
Price list on application.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and treasurer, 116 Chambers street, New York. Next annual meeting second Tuesday in June, (will probably be held in Toronto.)

THE WEAKNESS in price of yellow and red onion seed which developed at the close of last season seems to have its influence on the opening market this fall; besides there are a number of odd lots afloat of unknown or uncertain pedigree, or of crop of 1892, which can only be unloaded at a cut rate; it is doubtful if large holders of best stocks desire to maintain stiff prices for the benefit of others, at the same time it is believed that the total supply of onion seed is less than in fall of 1892.

Harrisburg, Pa.

The funeral of the late Archibald Graham took place on October 27. There was a large assembly of friends and neighbors, including many of his fellow florists and gardeners, six of whom officiated as pall bearers.

The Melrose Seed & Floral Co. have opened a new store at 32 South Third street. The firm is composed of Mr. and Mrs. W. E. Machlin.

DETROIT, MICH.—John Breitmeyer & Sons will hold a chrysanthemum show in connection with the Midway Plaisance, Detroit Light Infantry Armory, November 14 to 18 inclusive.

HOLLAND, MICH.—Chas. S. Dutton is building a new house 20x80.

KELSEY'S BEAUTIFUL NEW SOUTHERN Galax Leaves.

Unique, invaluable. Bronze or green, large and small, $2.00 per 1000, everywhere. One sample lot only of 5000 sent anywhere at half price.

FREE SAMPLES BY MAIL. Write quickly.

HARLAN P. KELSEY,

Highlands Nursery. LINVILLE, N. C.

General Agents for Chicago and the Northwest, Kennicott Bros. Co., 34 & 36 Randolph St., Chicago.

CUT FLOWERS.

Roses, Carnations AND Chrysanthemums.

Write for prices.

GEO. A. KUHL, Pekin, Ill.

SUPERB PANSIES.

My "Rainbow Mixture" is a combination of the very best strains in existence, and is sure to give satisfaction. Young plants 65 cents per 100 by mail; $5.00 per 1000 by express. Cash with order or C. O. D.

GEORGE CREIGHTON, Poughkeepsie, N. Y.

To Florists.

Use our GREEN LINEN for SMILAX; no fading; no breaking. . . .

D. B. SHERMAN & SON, Buffalo, N. Y.

HOLLY.

It is conceded that the successful delivery of perishable stock in the best condition exactly when demand is active is secured only as the result of considerable experience and close study of all the controlling conditions. During the past ten years we have studied these conditions and have the experience. We have faith that we can supply "First-Class Stock on Time," and to prove our faith by our works, on all orders given us **in season, we will Guarantee arrival** or no pay. We attempt no competition in price with stock which has never yet arrived, or—arrived after Xmas.

"A Case of Holly in front of the store is worth four (4) on the cars."

J. C. VAUGHAN,

New York. CHICAGO.

HOW TO GROW CUT FLOWERS.

A PRACTICAL TREATISE ON

THE CULTIVATION OF THE ROSE,

And Other Flowering Plants for Cut Flowers, sent to any address upon receipt of $2.00. M. A. HUNT, Terre Haute, Ind.

100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.

NO RUST OR MILDEW.

Packed light, and satisfaction guaranteed. Send for circular. . . .

We are the largest growers of Verbenas in the country. Our sales reaching last year 215,500. Our plants this year fully equal, if not surpass, any we have ever grown.

J. L. DILLON, Bloomsburg, Pa.

Hard Times Prices for Rooted Cuttings and Plants. Geraniums, double and single and fancy-leaved, rooted cuttings, $1.25 per 100; 2½-in. pots, $2.50 per 100, in mixtures. Coleus, rooted cuttings, 60c. per 100; 2½-inch pots, $2.25 per 100. Golden Bedder, Verschaffeltii, Golden Verschaffeltii, Firebrand, etc. Alternanthera P. major, A. nana, Versicolor, $1.00 per 100, from tints. Verbenas, rooted cutting, 75c. per 100; 2½-in. pots, $2.25. Roses, Brides, Mermets, La France, M. Niel, C. Soupert, Baltimore Belle, Jacqueminot, 2½-inch pots, $2.50 per 100. Cash with order. MRS. J. P. BEAN & CO., West End Greenhouses, Mt. Pleasant, Iowa.

E. G. HILL & CO.,

Wholesale Florists

RICHMOND, INDIANA.

Pteris tremula.

Three Thousand strong plants, in 2-inch pots, at $3.00 per hundred.

ART FLORAL CO.,

3911 Collage Grove Ave., CHICAGO.

HEADQUARTERS for WATER LILIES

SEED, TUBERS AND PLANTS.

Embracing all the newest and choicest in cultivation. Awarded SIX MEDALS at World's Fair—the highest number of awards for aquatics.

Illustrated descriptive Catalogue free on application.

Wm. TRICKER, DONGAN HILLS, New York.

VIOLETS.

1000 Marie Louise, 3-in. pot-grown, $3.50 per 100. A few thousand frame-grown, healthy strong plants, at $2.50 per 100, $22.00 per 1000.

Swanley White and Single Blue. Plants at $2.25 per 100. Ready now. Cash with order.

ADDRESS M. TRITSCHLER, NASHVILLE, TENN.

Mention American Florist.

Siebrecht & Wadley,

ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.

Palms, ORCHIDS Roses, and New Plants.

FRESH DRACAENA CANES NOW READY.

Mention American Florist.

ORCHIDS.

The Finest Stock in the World.

SANDER'S, ST. ALBANS, ENGLAND.

Thirty minutes from London.

Our Mr. A Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

FRESH IMPORTED ORCHIDS.

Cattleya Gaskelliana,

5—7 Bulbs, $.75 each.
7—12 Bulbs, 1.25 each.
Larger plants, $2.00 to $5.00 each.

I. FORSTERMAN, Newtown, N. Y.

MAKE MONEY by taking subscriptions from your customers for GARDENING. Special low rate to florists.

• • • THE GARDENING CO., Monon Building, Chicago.

FALL BULBS, PALMS, ETC.

CHINESE NARCISSUS, genuine imported, ready, per 100 $5 50.
LILIUM AURATUM, genuine imported, ready, per 100 $7.00 and $9.00.
CALLAS, fine, medium sized bulbs, per 100, $5.00.
ROSE C. SOUPERT, 2½-inch, fine stuff, per 100 $3.50; 3½-inch, per 100 $8 00.
LATANIAS, 4-inch stuff, grown cold, well rooted, 3 to 5 character leaves, ready for 5-inch pots, per dozen, $4 00; per 100, $30.00.
PHŒNIX RECLINATA, 5-inch, good value at doz. $5.00.
GERANIUMS, 2½-inch, named sorts, per 100 $4.00. Our selection, per 100 $3.00.
PANSY PLANTS, very fine, per 1000, from seed bed, $5.00.

Vaughan's Seed Store,

26 Barclay St., NEW YORK. 148 W. Washington St., CHICAGO.

Bouquet Green and Holly.

We are headquarters for first quality stock. Our prices compare most favorably with those of other reliable dealers. Please send us a list of your wants to figure on.

EVERGREEN WREATHING.—Medium heavy grade, $3.50 per 100 yards, $30.00 per 1000 yards; extra heavy grade, $5.00 per 100 yards, $45.00 per 1000 yards.

HOLLY.—The best the season has produced. In well-packed cases of 16 cubic feet, per case $5.00. Larger lots lower.

VALLEY PIPS.—Our XXX strain has always given the very best of satisfaction. Trial case of 2500 pips, $21.

LIL. AURATUM.—Sound, healthy Bulbs, 8 to 9 inches, $6.50 per 100. Per case of 250, $5.50 per 100.

TUBEROSE BULBS.—Select stock, strictly pure strain. Ready Dec. 1st.
Dwarf Pearl, $1 25 per 100, $9.00 per 1000.
Fall Double Italian, $1.25 per 100, $9.00 per 1000.

MUSHROOM SPAWN.—New importation of fresh stock in now. Sure to run if properly treated. 10 lbs. $1.20, 100 lbs. $8.00.

W. W. BARNARD & CO.

6 & 8 N. Clark St., CHICAGO.

Executor's Sale.

The entire stock of Seeds, Bulbs, etc., as well as all fixtures of the business of the late *H. A. Daacke, 410 West 14th Street, New York,* is offered for sale, in quantities to suit purchasers.

Prices low and terms easy.

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN, CONN.

Bulbs and Plants.

FOR CATALOGUES, ADDRESS
C. H. JOOSTEN,
IMPORTER,
3 COENTIES SLIP, NEW YORK.
Mention American Florist.

WE SELL MUSHROOM SPAWN,

LILIUM HARRISII AND DUTCH BULBS.
Special Low Prices to Florists & Dealers.
WEEBER & DON,
Seed Merchants and Growers,
114 Chambers Street, NEW YORK.

When writing to any of the advertisers on this page please mention the American Florist.

Bulbs. Bulbs. Bulbs.

SURPLUS STOCK.

	Per 100	Per 1000
LIL. HARRISII, 5—7	$1.75	$15.00
" " 7—9	3.00	25.00
" CANDIDUM simplex, large bulbs	2.50	20.00
ROMAN WHITE HYAC., 11—15	1.75	15 00
ITALIAN, blush white Hyac., 13—17	2.00	18.00
NARCISSUS CAMPERNELLE	.70	5.00
" Chinese Sacred Lily, extra large	3.50	30.00

☞All other bulbs very cheap.

HULSEBOSCH BROS.,

58 West Street, NEW YORK CITY.

SEND for Catalogue of



JAPAN BULBS, SEEDS and SHRUBS, ARAUCARIAS, TREE FERNS, AUSTRALIAN PALM SEEDS, CALIFORIA BULBS and SEEDS to

H. H. BERGER & CO.,

Established 1878. SAN FRANCISCO, CAL.

CHOICE SWEET PEAS.

Being the largest growers of the above in the world the trade are invited to send a list of their requirements and secure low prices for Fall delivery.

SHERWOOD HALL NURSERY CO.

Menlo Park and San Francisco, Cal.

SPEAK QUICK!

IF YOU WANT THEM.

25 LATANIA BORBONICA, 12-inch pots, fine specimens, $20.00 each.
NEPHROLEPIS EXALTATA, 4-inch. . . $10.00 per 100
" " 3-inch. . . 7.00 per 100
PHOENIX RUPICOLA, 6-inch. 10.00 per doz.

All the above in fine condition and ready for a shift.

JOHN IRVINE GREENHOUSE CO.,

BAY CITY, MICH.
Mention American Florist.

Watson's Corner

My fourth consignment of

THE W. P. BRAND

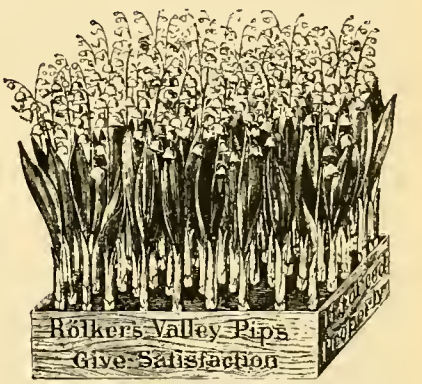
("Watson's Prolific")

Mushroom Spawn arrived November 4th. I had booked largely in advance, but have still a few thousand pounds unengaged. Let me hear from you if you want to make money this winter. Send for price list.

MUSHROOMS OF AMERICA, Palmer, $2.00
FALCONER'S MUSHROOM CULTURE, 1.50
ROBINSON'S MUSHROOM CULTURE, .50
By mail postpaid on receipt of price.

G. C. WATSON,

Wholesale Seedsman and Commission Merchant,
1025 Arch St., Phila., U. S. A.



Best German Forcing Pips.

Price: $9 the 1,000,
$20 the box of 2.500,
Less ten per cent. for prompt cash.

August Rölker & Sons

New York, P. O. Station E.

Z. De Forest Ely & Co.

WHOLESALE SEEDSMEN,
Growers and Importers of Bulbs.
JOBBERS IN
FLORISTS' SUPPLIES.
1024 Market Street, PHILADELPHIA, PA.
Price lists to dealers on application.

Choice Lily of the Valley Pips.

Ernst Reimschneider, Altona, Hamburg.

For Fall Importation. Catalogues free on applica oo his sole agents,

C. C. ABEL & CO., P. O. Box 920, New York.

Cyclamen.

	Per 100	Per 1000
C. Persicum, 4-inch pots		$12.00
C. Giganteum, 4-inch pots		18 00

All showing flowers, and in good condition.

Evergreen Hedging Plants.

Euonymus Jap., 10 to 15 in.	6.00	50.00
" Golden, " "		10.00
Evergreen Thorn (Cratægus Pyracantha), 12 to 18 inches	8.00	75.00

ANDREW L. BLACK,
415 E. Chase St., BALTIMORE, MD.
When writing mention the AMERICAN FLORIST.

Toronto.

There will be at least two exhibitors of cut chrysanthemums from this city at the World's Fair viz: Mr. A. J. Watkins, Superintendent of the Horticultural Gardens and Mr. J. H. Dunlop, and probably one or two more. Mr. Dunlop has a magnificent lot to pick from, a batch of Viviand-Morel being especially noticeable for size and beauty. Wanamaker and Golden Wedding are also in fine form.

The show of seedlings at the exhibition here on the 21st promises to exceed expectations; one prominent grower says that he expects to make a better show here than at any of the earlier ones.

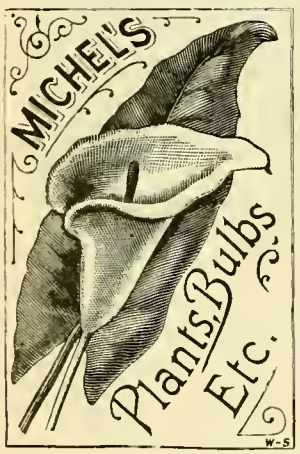
"Chrysanthemum weddings" are quite fashionable now; this is encouraging, and shows that the Gardeners' and Florists' Association has not lived in vain.

Mr. George Vair leaves for a visit to Chicago and the World's Fair Chrysanthemum Show on Sunday evening (12th).

E.

Pittsfield, Mass.

The second annual exhibition of the Berkshire Florists' and Gardeners' Club was held at Pittsfield during the past week. The exhibition was in size and quality decidedly ahead of that of last year, and the gardeners of the various fine private estates in the neighborhood showed that they are no novices in the line of chrysanthemum culture.



Write for Wholesale List.

MICHEL PLANT AND BULB CO.,

ST. LOUIS, MO.

TRY DREER'S GARDEN SEEDS,

Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.

HENRY A. DREER, Philadelphia, Pa.

Phœnix rupicola.

This useful and beautiful Date Palm in EXTRA FINE PLANTS, growing in from 7 to 10-inch pots, from $3.50 to $7.50 each, according to size

EDWIN LONSDALE, Wyndmoor, STATION "G," (Chestnut Hill P. O.) PHILADELPHIA.

Carnations.

Only a few field-grown plants remaining. Good plants and good kinds.

C. J. PENNOCK,

THE PINES. KENNETT SQUARE, Chester Co., PA.

ROSES—HYBRID PERPETUAL.

Strong, two year field-grown. Much superior to Imported stock, finely rooted and well ripened. Leading varieties.

GEN. JACQUEMINOT, MARSHALL P. WILDER, MAGNA CHARTA, PRINCE C. DE ROHAN, ANNA DE DIESBACH, ULRICH BRUNNER, MRS. J. LAING, ALFRED COLOMB, PAUL NEYRON, BARON BONSTETTIN, EUGENE FURST, FRANCOIS LEVET.

Twenty other varieties in smaller quantities.

$10.00 per 100; $90.00 per 1000.

Full assortment Moss and Hardy Climbers.

Large list Shrubs, Hardy Plants, Climbing Vines, Greenhouse Plants Bulbs, Etc.

THE STORRS & HARRISON CO., Painesville, Ohio.

CARNATIONS.

I have fourteen houses planted to carnations, and they are under my special care and supervision so that I can guarantee every cutting sent out.

If you will kindly write to me stating what varieties you want, how many of each, and when they are to be delivered, I will give you figures and think we can make a deal.

ANNIE PIXLEY.—This is a new pink, and one that you want to try; it is one of those beautiful light pinks, just the proper color. The stems can be cut fifteen to twenty inches long, the calyx never bursts, and it is such a strong grower and free bloomer that you can't help but make money if you plant it.

Orders will be filled in rotation, beginning now. Price per 100, $12.00; per 1000, $100.00. Twenty-five at 100 rate, 250 at 1000 rates.

PANSIES.

I will have good little plants right along until April 1st. The strain is good, extra good, and the price is very low, quality considered. Per 100, 75c; per 500, $3.00, free delivery; per 1000, $5.00, you to pay the delivery.

GERANIUMS.

Rooted Cuttings, all first-class varieties and good bedders. Price, in mixture, $10.00 per 1000; $1.50 per 100. In separate colors, $12.00 per 1000, or $2.00 per 100. There are no medium varieties among these; all are A No. 1.

Samples of any stock free. Terms absolutely cash with the order or C. O. D.

L. B. 496. ALBERT M. HERR, LANCASTER, PA.

—OUR— TRADE * DIRECTORY AND Reference Book WITH SUPPLEMENT for 1893,

bringing the list of names and addresses up to date,

$2 00

AMERICAN FLORIST CO.

P. O. DRAWER 164. CHICAGO.

40,000 Carnations.

FIELD-GROWN. FREE FROM RUST. Per 100

ALL SOLD EXCEPT

1000 Grace Wilder	$ 5.00
1000 Portia	5.00
500 Tidal Wave	5.00
1000 Orange Blossom	4.00
3000 Hinze's White	4.00

Also extra fine strain of Pansies. Cold frame size.....per 1000 $5.00;

CASH WITH ORDER.

Address GEO. B. WHITEHEAD, Lock Box 116. Greens Farms, Conn.

CARNATIONS AND VIOLETS.

FIELD-GROWN.	Per 100
1000 GRACE WILDER	$5 00
200 PORTIA	5 00
300 HECTOR	5 00
400 L. L. LAMBORN	5 00
200 MRS. F. MANGOLD	5 00
1000 MARIE LOUISE VIOLETS, strong clumps	5 00
200 REX BEGONIAS, 3-inch pots	7 00
SMALL FERNS, assorted varieties, suitable for fern pans, from 2-inch pots	4 00

EVENDEN BROS., Williamsport, Pa.

Mention American Florist

500,000 PANSIES

The Jennings Strain of large flowering and Fancy Pansies can be had in any quantity wanted up to Jan. 1st. They are the leading strain to-day, more being sold than any other in the market. Plants are field-grown and are very fine and stocky. Large, medium or small, one price 60 cts. 100 by mail; by express 1000 $5, 5000 $20, 10,000 $35, and plenty of extra plants gratis to help pay express. Yellow and white in separate colors if desired, same price. Florists try this strain of pansies. There is money in it. Only small plants by mail.

PANSY SEED—Pure white, yellow, or mixed, $1.00 per packet of 2500 seeds.

4,000 fine field-grown CARNATIONS, sold cheap to clean out. Send for prices.

ADDRESS E. B. JENNINGS, WHOLESALE PANSY GROWER, Lock box 254. SOUTHPORT, CONN.

Carnations.

Field plants all sold.

Orders solicited for early delivery of ROOTED CUTTINGS in varieties suitable for summer blooming.

C. J. PENNOCK,

The Pines. KENNETT SQUARE, Chester Co., PA.

CARNATIONS

Strong, healthy, field-grown plants.

PORTIA	$ 6 00 per 100
LIZZIE McGOWAN	6 00 "
TIDAL WAVE	6 00 "
FRED. DORNER	7 00 "
GARFIELD	7 00 "
AURORA	8 00 "

N. S. GRIFFITH, Independence, Mo.

IT COSTS NO MORE TO GROW GOOD CARNATIONS THAN TO GROW POOR ONES.

We have a good stock of field-grown Carnations of all the best varieties. Send for price list.

Geo. Hancock, GRAND HAVEN, MICH.

EXTRA HEAVY

TWO YEAR OLD HERMOSA ROSES.

We have growing in the open ground a beautiful lot of extra heavy, two year old Hermosa Roses. The plants average 24 to 30 inches in height, bushy and strong and will make fine plants to pot up into 6 and 7-inch pots for next **SPRING SALES.** *Price, $15.00 per 100; per 1000 $140.00.*

IMPORTED BUDDED ROSES.

Our importations of these arrive the latter part of November and promise to be very fine this season. We offer all the leading varieties as follows:

Alfred Colomb, Anna de Diesbach, Baron de Bonstettin, Baroness Rothschild, Boule de Niege, Duke of Edinburgh, Fisher Holmes, Gen. Jacqueminot, Gloire de Mousseuses (Moss), Magna Charta, Merveille de Lyon, Mons. Boncenne, Mrs. John Laing, Paul Neyron, Prince Camille de Rohan, Ulrich Brunner, White Baroness, Xavier Olibo.

$12.00 per 100; $100.00 per 1000.

Alfred K. Williams, Blanche Moreau (Moss), Captain Christy, Countess Murinais (Moss), Duchess of Albany, Earl of Dufferin, Gloire de Margottin, Persian Yellow, Queen of Queens, Rugosa, Rugosa Alba, Souvenir de Malmaison.

$15.00 per 100.

Gloire de Dijon. Marechal Niel.

Extra fine stock. $20.00 per 100.

NOW is the time to order the above. Pot the plants as soon as received and plunge the pots into a cold frame, where they will winter at little expense. Root action will begin almost at once, and the plants will be in the best possible condition to bring into your houses at the proper time, with much better result than if potted up late in winter or early spring.

If you are in need of **PALMS, FERNS** or other **DECORATIVE STOCK** do not fail to consult our trade list. We have forty houses filled with this class of plants, all in the best possible condition for immediate sales.

HENRY A. DREER, Philadelphia, Pa.

INCREASE YOUR INCOME

without any expense or loss of time by taking subscriptions to GARDENING from your customers when they call. For special terms to florists address

THE GARDENING CO., Monon Building, Chicago.

25,000 PEONIES.

IN ALL COLORS.	Per 100
PINKS, assorted	$10 00
OLD RED or CRIMSON	12 00
WHITES, assorted	15 00
DOUBLE TENUIFOLIUM	35 00
NAMED SORTS, assorted	15 00

Clematis. Iris Kæmpferi, Yucca filamentosa, and other hardy stock for florists' use.

Also a full line of

DUTCH AND FORCING BULBS

for fall planting.

THE JAMES KING SEED CO.

98 Lake Street, CHICAGO.

You Will all Want

The New Yellow Coleus GOLDEN CROWN,

As it takes all other yellows down;
And will soon be all the go,
Because so very easy to grow.

There is nothing **Pale** or **Weak** about it. You **can't afford** to run without it; $3.00 per doz. Orders booked now for delivery November 1st, or as soon as ready. Or Gibson's beautiful scented Hybrid Pansies, 2000 seeds $1.00. Or the finest Double Fringed Petunia (Dreer's Strain), hybridized by hand, 1000 seeds $1 50. Snow Crest Daisy, $5.00 per 100. Other specialties later. Or extra large mixed Freesia Bulbs, $1.00 per 100; 2nd size 50 cts., and small bulbs 25 cts. per 100. Cash with order please.

Address **J. C. GIBSON, Woodbury, N. J.**

Mention American Florist.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

The Grand New Forcing Rose,

"American Belle."

Prices and full particulars on application.

John Burton, Chestnut Hill, Philadelphia

Hybrid Perpetual Roses,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,

JAMAICA PLAIN, (Boston). MASS.

ROSES.

		Per 100	Per 1000
1500	Perle, 3-inch	$ 5.00	$40.00
1000	" 2½-inch	3.00	25.00
600	Bride, 2½-inch	3.00	25.00
1200	Mermet, 2½-inch	3.00	25.00
200	Hoste, 2½-inch	3.00	

BROWN & CANFIELD, Springfield, Ill.

ASPARAGUS PLUMOSUS NANUS.

Well established, 4-inch pot plants, $20 per 100.

JOSEPH KIFT.

Chester Co., WEST CHESTER, PA.

10,000 JACQ ROSE PLANTS

From open ground, 1 and 2 year old, on their own roots, well branched.

2 feet high	$10.00 per 100
2 to 2½ feet high	12.00 "
2½ to 3½ feet high	15.00 "

Sample of 8 for $1.00 in advance.

JORDAN FLORAL CO.,

706 OLIVE ST., ST. LOUIS, MO.

Mention American Florist.

Forcing Roses.

A stock of the best varieies always on hand.

M. A. HUNT, Terre Haute, Ind.

Mention American Florist.

3000 Gen. Jacq. Roses

On own roots, dormant, 1 yr. old, very strong stock. Per 100 $8.50; per 1000 $75.00.

☞Send $1.00 for sample of 12 Roses. . . .

W. W. BARNARD & CO.

6 & 8 N. Clark Street, CHICAGO.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

Buffalo.

Chrysanthemum lore is heard now on all sides, and the demand for them is about as good as last year. Although the writer has been cautioned several times within a few days by good patrons to be careful, "don't grow many," "they are going out of fashion," "no perfume," etc., but these same good people buy them all the same. The varieties that at this writing are making the biggest show are Minnie Wanamaker, Col. W. B. Smith, Ed. Hatch, Golden Wedding, Viviand-Morel, Mrs. R. C. Ogden and Domination. The supply for the next two weeks is likely to be larger than the demand, but those who have good flowers later will, I believe, find a sale for them at paying prices. Roses, except Beauties and Meteors, are rather too plentiful just now. Violets are in abundance. For the very finest carnations there is a demand; for poorer quality there is not much, and the market is a little overstocked.

Wise Bros., of East Aurora, N. Y., have been sending in some remarkably fine carnations, fine in every way, Daybreak with stems two feet, Tidal Wave and Grace Wilder eighteen inches. These are exact measurements and no guess work.

As there is no "mum" show in this city this year several of our stores are very gay with chrysanthemum plants, and from what is seen in some other cities our plants can be classed as good.

Mr. Peter Crow, of Utica, stopped here on his return from the Golden Gate and New Orleans trip. He has a good story to tell, and must have seen some great sights. In company with Mr. Rebstock and your correspondent the trio visited Mr. Wm. J. Palmer at his large place in Lancaster, Erie Co. They found the old gentleman home and looking wonderfully well, and so was the place. They have been cutting great crops of A1 roses; at the present time the crop is a little off. A house of violets 150x16 is looking very fine. Carnations, three or four houses were also looking well and in fine flower. Perhaps the most brilliant sight just now is a bed of "mums," W. H. Lincoln, about 100x8 feet; a grander looking lot I never saw.

There is talk of a party of Buffalo boys leaving here for New York City the middle of the week. It is to be hoped they will go and bring back reports of the new wonders. W. Scott sent seven large cases of plants to the Chicago show last week.

W. S.

ASPARAGUS PLUMOSUS NANUS, good plants, from 4-inch pots $20 per 100

ASPIDISTRA, variegated. A few fine plants, 5 and 6-inch pots $4 per dozen

CLIVIA, from fine new European varieties, young plants, 4-inch pots $2 per dozen

EUCHARIS GRANDIFLORA, bulbs 5 to 6 in. circ., with healthy leaves. $3 per dozen

EULALIA UNIVITTATA. . . . $2 per 100; $15 per 1000

ARUNDO DONAX, variegated, strong roots, $2 per dozen. $15 per 100

IRIS GERMANICA, a fine pure white sort, perfectly hardy $10 per 100

PAEONIES, double white and double pink, two of the best, mixed $12 per 100

Any of the above will be sent on receipt of price with order.

ALEX. SCOTT,
Balto. Co., Lauravilla, Md.

Mention American Florist

Chrysanthemum Cut Blooms.

Single blooms on long stems, various sizes, shipped on short notice. Prices range from $4.00 to $12.00 per 100. Address

J. G. BURROWS, Fishkill, N. Y.

STOCK PLANTS

— OF —

THE QUEEN,
CRAIG LIPPINCOTT,
HARRY BALSLEY,
MRS. JEROME JONES,
MRS. ROBERT CRAIG,

— AND —

ALL THE PRIZE WINNERS

Good plants of above at 50 cts. each.

SEND US THE LIST which you made up at the shows and we will **fill it all** and save you money.

J. C. VAUGHAN,

New York: 26 Barclay Street.

Chicago: 146 & 148 WEST WASHINGTON STREET.

Mention American Florist.

THE QUEEN.

Original stock, strong stock plants, $1.00 each.

FRED. S. WALZ, Station A, CINCINNATI, OHIO.

Chrysanthemums

FOR SALE: Stock plants of IVORY, A. SPAULDING, M. WANAMAKER, W. H. LINCOLN, H. E. WIDENER, MERMAID, at 2 for 25c.; 10 for $1.00; $10.00 per 100.

COL. WM. B. SMITH, KATE BROWN, and a few more good new ones, at 25c. each.

Orders booked now for rooted cuttings of Carnations and Chrysanthemums. Ivory, A. Spaulding, and Wanamaker, Lincoln and Widener by the 1000 this year.

FRED. BURKI,
Wholesale Florist,
Allegheny Co. **BELLEVUE, PA.**

HYDRANGEA,

THOMAS HOGG,

3 and 4-inch pots, $4.00 and $6.00 per 100.

BRAUER & RICHTER,
McCONNELSVILLE, OHIO.

Chrysanthemums.

STOCK PLANTS.

The Queen.	Dr. Mandeville.
Mrs. Craig Lippencott.	Harry Balsley.
K. Brown.	Mermaid.
W. N. Rudd.	Wanamaker.
Sue T. Price.	Mrs. J. G. Whilldin.
Mrs. Jerome Jones.	Ivory.
Ada Leroy.	Col. W. B. Smith.
Pres. Wm R. Smith.	Ed. Hatch.
Golden Wedding.	Geo. W. Childs.
Joey Hill.	The above at 25c. each.

The above at 50c. each.

All other varieties on application.

DAILLEDOUZE BROS.,
Flatbush, L. I., N. Y.

CYCLAMEN persicum giganteum. 5-inch pots $9.00 per 100

PANSIES, Mammoth Strain, 75 cts. per 100 $5.00 per 1000.

CARNATIONS, Dorner's Seedlings, $15 per 100 Daybreak . . . $8.00 to $10.00 per 100 McGowan, Puritan, Wilder, and others, $8.00 per 100. Second size $6.00 per 100

Correspondence solicited.

Address **J. G. Burrow,**
FISHKILL, N. Y.

14 FIRST PREMIUMS AT CHICAGO.

First Premium for best vase of 50 blooms pink		$50 00
" " " 50 blooms any color		50 00
" " best 48 varieties one flower of each		50 00
" " " 25 " " " "		20 00
" " " 12 " " " "		10 00
" " " 24 Japanese " "		20 00
" " " 6 vases, twelve flowers of each		50 00
" " " vase of twelve yellow		10 00
" " " vase of twelve any color		10 00
" " " twelve varieties of American origin,		10 00
" " " " " of European "		10 00
" " " " " of Japanese "		10 00
And two plant premiums.		$300 00

We took the above first premiums at the great World's Fair Chrysanthemum Show. We have fine stock of all the varieties with which we took these prizes. See the illustrations of some of our prize winning flowers in this issue of the FLORIST.

We are "right in it" on chrysanthemums—good chrysanthemums—really valuable varieties—sorts that there is money in. Send for our latest list if you have not got one.

WE ALSO TOOK THE

$100.00 PRIZE

For best Seedling on exhibition, not yet disseminated, any color, 12 blooms, with our

CHALLENGE,

A GRAND NEW YELLOW THAT IS A "WORLD BEATER."

E. G. HILL & CO.,

RICHMOND, INDIANA.

DON'T MISS IT.

YOUR CHANCE TO MAKE MONEY WITHOUT ANY SPECIAL EFFORT BY TAKING SUBSCRIPTIONS FROM YOUR CUSTOMERS FOR **GARDENING.**

THE GARDENING CO., Monon Building, CHICAGO.

FOR SALE—10,000 PANSIES.
Good, strong plants, in bud and bloom; best mixture. Separate colors (for cut flower work), such as Lord Beaconsfield, Pure White, King of the Blacks, White with large blue eye, at 60c. per 100; $5.00 per 1000.
WM. DEGNER, Muscatine, Iowa.

HAIL LOCK THE DOOR BEFORE THE HORSE IS STOLEN. DO IT NOW.
JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

FLORAL DESIGNS
The Cut Flower Worker's Friend. Fine book of 160 pages. Send **$3.50** for it, to
J. HORACE McFARLAND, Harrisburg, Pa.

Chicago.

Mr. Ed. Jansen, of New York, has been in the city for the last two weeks packing up his World's Fair exhibit. He will leave for home this week.

Mr. E. A. Wood will go from here to Denver, where he will act as judge at the exhibition of the Denver Florist Club.

The flower market continues fair; the show has certainly increased the sale of big specimen chrysanthemums, but roses are at a discount. Fine Beauties are sold for $3 a dozen, and grade from that down to $1.50; Meteors continue to sell, but the rank and file of the roses do not sell. Some extra quality specimen blooms of chrysanthemums, Sunderbruch and Domination, have sold as high as $6 a dozen, and they grade down from this to anything the dealer can get for the poor flowers. Dull colors will not sell at any price, and the public taste is very critical in pinks, whites and yellows having the preference. Odd tints of amarantb, crimson and bronze are really unsalable.

Romans have made their appearance, and bring $4, the stock is pretty good. Valley still keeps at $5, and violets are eagerly bought up at $1.50. Some of the variety Lady H. Campbell were fine, and received with favor. Carnations do not go very fast, except in fancy stock.

H. Harmon, secretary of the South Park Board for 22 years, died on the 3d inst. and was buried last Sunday. He was a most estimable gentleman and his death will be seriously felt by those who have been so long associated with him in the direction of the business affairs of the South Park system. Superintendent Fred Kanst pays the deceased a high tribute and feels the loss keenly.

The banquet to be given this Thursday evening by the Chicago Florist Club to the visitors in attendance at the World's Fair Chrysanthemum Show promises to be a most enjoyable affair. A full report will appear next week.

PALMS.

150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

Address GEORGE WITTBOLD,

1708 N. Halsted St., CHICAGO.

Association "Flora"

BOSKOOP, HOLLAND

NURSERIES.

Roses, Clematis, Shrubs, Azaleas, Palms, Herbaceous Plants, Bulbs, Etc.

Catalogue on Application.

P. OUWERKERK,

206 Cambridge Ave., JERSEY CITY, N. J.

Verbenas

SPECIAL OFFER.

	Per 100	Per 1000
Unsurpassed Mammoths, 2¼-inch pots	$3.00	$25.00
" " rooted cuttings	1.25	10.00
General collection, named, " "	1.00	8.00
" " " 2¼-inch pots	2.50	20.00
H. P. Roses, dormant, strong	6.00	75.00
Tea " " "	6.00	50.00
Forcing " 3-inch pots, "	6.00	50.00

WOOD BROTHERS,

Fishkill, N. Y.

Always mention the AMERCAN FLORIST when writing to advertisers.

BEGONIA SEMPERFLORENS ROSEA.

The True Ever-Blooming Species.

Blooms to perfection every day in the year. If you have any use for extra fine cut Flowers or the best bedding, basket, vase, pot, market and the quickest growing, quickest selling and abundant blooming winter plant, Begonia Semperflorens Rosea fills the bill to perfection. (Do not confound this valuable plant with B. S. Gigantea or Vernon, they are in no way to be compared to it). It will give the greatest satisfaction to customers and profit to the dealers. We have plants that are a mass of fine blooms, having bloomed every day since May 1st, 1892; at this date (October 21) they are blooming outdoors splendidly. I offer a limited number of extra stock, well branched plants at following low rates till December 1st only; after that date 20 per cent must be added to present prices. Plants will be sent C. O. D. if desired, but very liberal additions will be made to all cash orders.

	Per 1000	Express. Doz.	Mail. Doz.	Express. 100	Mail. 100
Rooted Cuttings, fine plants	$20.00	$.59	$.75	$ 3.00	$3.50
" " selected plants	35.00	.65	1.00	3.50	4.50
2¼-inch pots, splendid branched plants	40.00	1.00	1.50	5.00	6.50
2¾-inch, extra heavy plants, ready for 5 to 6-inch pots	50.00	1.60		6.00	
4-inch, heavy branched plants, ready for 6 to 7-inch pots	80.00	2.00		10.00	
5-inch, strong, blooming plants		2.50		13.00	
6-inch, full of flowers, 1 ft. diameter		3.00		16.00	
7-inch, splendid specimen	each, 50c.	4.50		40.00	

On receipt of ONE DOLLAR I will send Express Sample of the 7 first named sizes. Safe arrival in prime condition guaranteed.

Warranted the Genuine EVER-BLOOMING SPECIES.

J. Elletson,

Floral Nurseries, AUBURN, N. Y.

This adv. will not appear again.

H. BAYERSDORFER & CO.,

WHOLESALE

FflorISTS' SUPPLIES ONLY,

56 N. 4th Street,

PHILADELPHIA, PA.

Our new Catalogue is now out, free upon application.



FLORISTS' HOSE,

Made by E. W. Holt, member of the Society of American Florists.

Goodyear Rubber Store,

2 W. 14TH ST. NEW YORK.

You Need a Copy

—OF OUR—

Trade * Directory

AND

REFERENCE BOOK

if you do not already have one. We will send you one together with our Supplement for 1893 for $2.00.

AMERICAN FLORIST CO.,

P. O. Drawer 164. CHICAGO.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

Supplies of all kinds, such as Bouquet Papers, Baskets, Pot Holders and Stands, Fern Dishes, Metal Memorial Designs, Wire Frames, Funeral Sheaves, Cape Flowers, Immortelles, etc., etc.; also

Cycas Leaves (Sago Palms), natural prepared, equal to fresh cut in appearance, from 28-in. upwards, at 40c., 45c., 50c., 60c., 75c. and $1.00 each, according to length; and many other items of interest to Florists contained in our beautiful and richly illustrated new Trade List mailed free. Address

August Rölker & Sons,

136 & 138 W. 24th St., New York.
P. O. Station E.

Medal Awarded

at World's Columbian Exposition to

ERNST KAUFMANN & CO.,

113 N. 4th St., Philadelphia, Pa.

FOR

METALLIC DESIGNS, WHEAT SHEAVES, CELLULOID BASKETS AND POT COVERS, and all Florists' Supplies

MARSCHUETZ & CO.,

Florists' Supplies,

23 & 25 N. 4th St., PHILADELPHIA, PA.

Send for Catalogue.

HUNTINGTON SEED CO.

Florists' : Supplies,

66 E. WASHINGTON ST,
INDIANAPOLIS, IND.

Standard Flower Pots, Dried Grasses, Fancy Baskets, Metal Designs. Trade Catalogue mailed free.

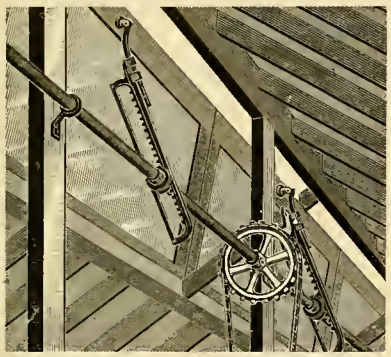
Mention the American Florist when writing to advertisers on this page.

SEE HERE

BROTHER

FLORIST!

Aren't you tired going through your houses two or three times a day year after year and lifting your ventilating sash one at a time and propping them up with sticks or pots, with a chance of having sash blown off and broken glass to pay for? If you are



We have got just the thing you need, the **NEWEST** and **BEST** thing out. "The New Departure" for **about half** the cost of the old style. Send for Descriptive Catalogue to

J. D. CARMODY, Evansville, Ind.

Mention American Florist.



W. C. KRICK'S
PATENT
Florists' Letters, Etc

Highest Award wherever exhibited.

These Letters are made of the best immortelles, wired on wood or metal frames having holes drilled in them to insert toothpicks, by which to fasten them in the design. All infringements prosecuted.

2-inch Letters, $3 00 per 100. Postage, 15c. per 100

Before purchasing send for free sample and Catalogue and compare with any other letter in the market.

W. C. KRICK, 1287 Broadway, BROOKLYN, N. Y.

Agents:—J. C. VAUGHAN, Chicago, Ill.; H. BAYERSDORFER & Co., Phila., Pa.; N. STEFFENS, N. Y.; AUG. ROLKER & SONS, N. Y.; ED. S. SCHMID, Washington, D. C.; JAMES VICK'S SONS, Rochester N. Y.; T. W. WOOD & SONS, Richmond, Va.; J. A. SIMMERS, Toronto, Ont.

Mention American Florist.

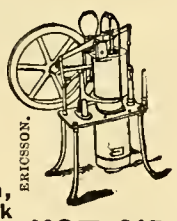
WATER

For Your GREEN HOUSE, ROSE HOUSE, NURSERY,

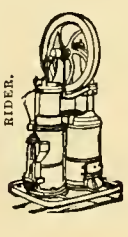
Conservatory, Lawn, House, Garden, Stock or any other purpose.

Send for Illustrated Catalogue OF THE

DE LAMATER-RIDER AND DE LAMATER-ERICSSON PUMPING ENGINE.



HOT-AIR PUMPING ENGINE.



Their operation is so simple and safe that a child can run them. They will pump water from shallow streams or any kind of well. They can be arranged for any kind of fuel.

Capacity 1,500 to 30,000 gallons of water a day, according to size.

The De Lamater Iron Works,
87 South Fifth Avenue,
NEW YORK, N. Y.

DOES IT PAY?

to wait till the last moment.

NO! Then order your

Bouquet Green, Cut Ferns, Sphagnum Moss, Xmas Trees, Holly, Festooning, and Xmas Green of all kinds. ▲ ▲ ▲ ▲

And do it early. Write for prices—low as the lowest. A 1 goods, and the only place in the WORLD where you can ALWAYS get them.

H. E. HARTFORD, 18 Chapman Place, BOSTON.

Mention American Florist.



EVERGREEN
CUT FERNS

ESPECIALLY FOR FLORISTS' USE.

$1.25 per Thousand Ferns.



IN LOTS OF 5,000 AND UPWARDS, $1.00 PER 1000. Ferns furnished the year round. Special attention given to supplying the Wholesale Trade.

BOUQUET GREEN For Holiday Trade, $2.00 per barrel (thirty pounds); or $6.00 per hundred pounds. Special reduction in express rates.

SPHAGNUM MOSS a specialty. Long, clean fibre, dry or green, $1 per barrel, or six bbls. for $5. Write for terms on large lots. Terms cash, or goods will be sent C. O. D.

CHRISTMAS TREES. American White Spruce, much better shape and color than the Blue Spruce, also Balsam Fir from 3 to 30 feet high. Special attention to supplying carload lots. Write for price list and terms.

L. B. BRAGUE, Hinsdale, Mass.

City Stand During the Holidays: 47th St and Lexington Ave., NEW YORK.

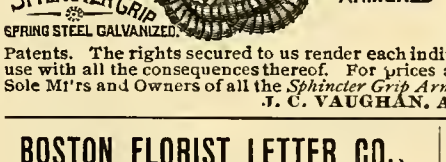
H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO,

NATURAL GAS MADE GLASS

FOR GREENHOUSES.

Write for latest prices.



Pat. 1882, '85, '86, '88, '90, '91.

FOR WATER, AIR, STEAM, ACIDS, OILS, LIQUORS, GAS, SUCTION,

And for any and every purpose for which a hose can be applied.

Sizes, ⅛-inch to 42 inches diameter.

The making, vending or use of any Serviceable Armored Wire Bound Hose not of our manufacture is an infringement on one or more of our Patents. The rights secured to us render each individual dealer or user responsible for such unlawful use with all the consequences thereof. For prices and discounts address **WATERBURY RUBBER CO.,** Sole M'f'rs and Owners of all the *Sphincter Grip Armored Hose Patents*, 49 Warren Street, New York

J. C. VAUGHAN, Agent, CHICAGO.

BOSTON FLORIST LETTER CO.,

13 Green Street, BOSTON, MASS.

Address all correspondence to 1 Music Hall Place

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1¼-inch and 2-inch, $2.00 per 100. Patent fastener with each letter.

With orders for 500 letters we give away a nicely stained and varnished box. See cut in next week's American Florist.

Our letter is handled by all the wholesalers in Boston.

AGENTS: Marschuetz & Co., 25 N. 4th St., Philadelphia, Pa.; A. Rolker & Sons, New York; F. E. McAllister, 22 Dey St., N. Y.; Ernst Kaufmann & Co., 113 N. 4th St., Philadelphia, Pa.; H. Bayersdorfer & Co., Philadelphia, Pa.; A. D. Perry & Co., 33 Warren St., Syracuse, N. Y.; A. C. Kendal, 115 Ontario St., Cleveland, O.; E. H. Hunt, 79 Lake St., Chicago; Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.; H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.; T. W. Wood & Sons, 6th and Marshall Sts., Richmond, Va.; Jas. Vick's Sons, Rochester, N. Y.; Dan'l B. Long, Buffalo, N. Y.; C. A. Kuehn, St. Louis, Mo.; C. F. Huntington & Co., Indianapolis, Ind.; Z. De Forest Ely & Co., 1024 Market St., Philadelphia, Pa.; Portland Seed Co., 171 2nd St., Portland, Oregon.

J. A. Simmers, Toronto, Ont., Agent for Canada.

WARNING.

A party in Williamspert, Pa., named Chas. E. Montgomery, is making and offering for sale letters which are an infringement upon our patent, and are also much inferior to those manufactured by us. We have notified them of suit unless they desist at once. Buy no letters except through our authorized agents.

BOSTON FLORIST LETTER CO.,
1 Music Hall Place, Boston, Mass.

CUTS!



WOOD ENGRAVING,
PHOTO-ENGRAVING,
WAX ENGRAVING,
ZINC ETCHING,
HALF-TONE,
DESIGNING.

MANZ & CO.,

183 Monroe Street, CHICAGO. **ENGRAVERS.**

YOU CAN SAVE MONEY BY PURCHASING, AND GLASS BY USING

Hamilton's Patent Sash Lifter.

The best thing of the kind ever invented for greenhouse use. Send for description and price list.

BAY STATE HARDWARE CO.,
272 Freeport Street, BOSTON, MASS.

Baltimore.

Much talk has been caused in gardening circles by two articles that appeared in the columns of the daily press during the past week; the first being a statement of the reasons why Mr. Jno. Donn had left the Gardeners' Club and started a rival chrysanthemum show, and the next an article giving the affair from the standpoint of the Gardener's Club. As usual in such cases, the result is the public is convinced that there is a good deal of ill feeling but otherwise there seems to be little gained by this raking up of an old affair. In fact the setting up of open hostility instead of smothered and secret animosity is the only advantage possible, where the public regard the whole affair as considerable of a joke, and if they go to one show will probably consider that enough, as friends of Mr. Donn will consider his the best and anything else superfluous, while friends of the members think the other a small and insignificant matter, scarcely worth taking notice of.

Mr. Donn is admitted by all to have some superb plants, and it is a pity that any considerations other than the advancement of the love of flowers should have prevented them helping to make the show of 1893 the greatest ever held here.

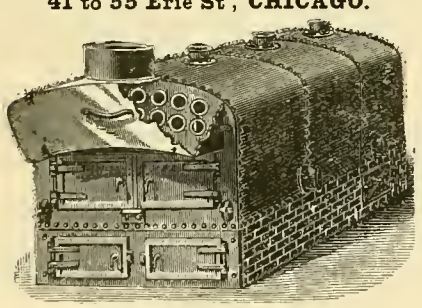
Flowers are a very slow sale. "Mums" are going, but at low prices, and other flowers are in very little demand.

The prospect of betterment in the market seems slight, possibly the show may stir things up a little next week.

Mr. Wm. Fraser's new office is a dandy, and if they were not a week too late, his "mums" would be hard to beat, as it is they are very pretty plants. MACK.

Always mention the American Florist when writing to advertisers.

KROESCHELL BROS.
IMPROVED
Greenhouse * Boiler,
41 to 55 Erie St, CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

STANDARD FLOWER POTS.
Price List.

2 -inch,	Per 1000 $3.25	7-inch,	Per 100 $ 3.50
2½-inch,	" 3.50	8-inch,	" 5.00
2½-inch,	" 4.00	9-inch,	" 7.50
3 -inch,	" 5.00	10-inch,	" 10.00
3½-inch,	" 7.25	11-inch,	" 15 00
4 -inch,	" 9.00	12-inch,	" 20.00
5 -inch,	" 13.80	14-inch,	" 40.00
6 -inch,	" 22.00	16-inch,	" 75.00

Terms cash, f. o. b. Address
HILFINGER BROS. POTTERY, Fort Edward, N. Y.
August Rolker & Sons, 136 & 138 W. 24th St., New York City, Agents for New York and vicinity.

TRADE MARKS. COPYRIGHTS.

SOLICITOR OF U. S. AND FOREIGN PATENTS,
Atlantic Building, Washington, D. C.
(Send sketch or model for free examination as to patentability.



Mention American Florist.

THE "LOCKLAND"
Sash Bars * * *
ARE ALWAYS SATISFACTORY.
This cut represents our improved Clipper Bar for Butted Glass roof—putty to be used under glass only.
GUTTER MATERIAL, RIDGES, SASH, ETC.
The finest CLEAR CYPRESS used.
Write for circulars and estimates. . . .
LOCKLAND LUMBER CO.
. Lockland, O.

"Standard" Flower Pots.
As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address
The Whilldin Pottery Company,
BRANCH WAREHOUSES: 713, 715, 717 & 719 Wharton St., Philadelphia, Pa.
Randolph Ave. and Union St., Jersey City, N. J.
Jackson Ave. and Pearson St., Long Island City, L. I.

STANDARD FLOWER POTS
Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.
A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.
We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.
Send for price list and samples and we know you will give us an order.
SYRACUSE POTTERY CO. OFFICE: 403 North Salina Street, SYRACUSE, N. Y.

STANDARD FLOWER POTS.
OLD RELIABLE MAKE OF
ELVERSON, SHERWOOD & BARKER.
Write for Catalogue and Price List.
PITTSBURGH CLAY MFG. CO. New Brighton, Pa.

STANDARD FLOWER POTS
Our new **Pottery,** new **Machinery,** the very **best Clay** in the **Country,** and our new **Patent Kilns,** all combined, make the **best Standard Pot in the market.** Send for price list.
PARMENTER MF'G COMPANY,
GEORGE MESSINGER, Manager. East Brookfield, Mass.

D. C. SCHOFIELD & CO.,
New Brighton, Pa.,
are in their new factory, manufacturing, this month, six times as many "STANDARD" FLOWER POTS as they made last season, in a month.
WRITE FOR PRICES.

LITTLE'S ANTIPEST.

— A —

Valuable Discovery of the 19th Century.

SILVER MEDAL AWARDED

— BY THE —

CALIFORNIA STATE FAIR OF 1890.

This preparation Is a sure destroyer of the **Scale, Wooly Aphis** and **Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure** and **Cheap.** No fruit grower or florist should be without it.

Send for Circulars and Price List.

R. W. CARMAN, General Agent,
291 AMITY STREET,
FLUSHING, Queens, Co., N. Y.

Increase Your Business

by fostering an interest in plants and flowers among the people in your vicinity. You can best do this by getting subscribers to

GARDENING . . .

which tells people how to get the most satisfaction out of their gardens, and stimulates them to enlarge and extend their gardening operations.

$1.00 A YEAR is the subscription price of this paper, which is issued twice a month, is handsomely and truthfully illustrated, is thoroughly practical, absolutely free from wind and gush and grinds no axes for anyone.

SPECIAL LOW RATE to florists who will act as agents. We want an agent in every city and town in America. Write for terms now to

THE GARDENING CO.
Monon Building, CHICAGO.

THE CHAMPION Automatic Ventilator.

The cheapest, easiest to operate, and by far the best machine in the market. Don't buy a Ventilator until you have seen my illustrated descriptive circular, which will be sent you free, giving prices, etc. Also **Champion Soil Pulverizer and Sifter.**

Address, **E. E. WOLF,**
Box 114. SPRINGFIELD, O.

THE PERFECT DRAINAGE

BENCH TILE

For circulars, etc., address

W. P. Wight, Upland Green Houses,
Send your business card. MADISON, N. J.

CATALOGUE PRINTING. ELECTROTYPING.

Done with expert ability for Florists, Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.
. . . HARRISBURG, PA.

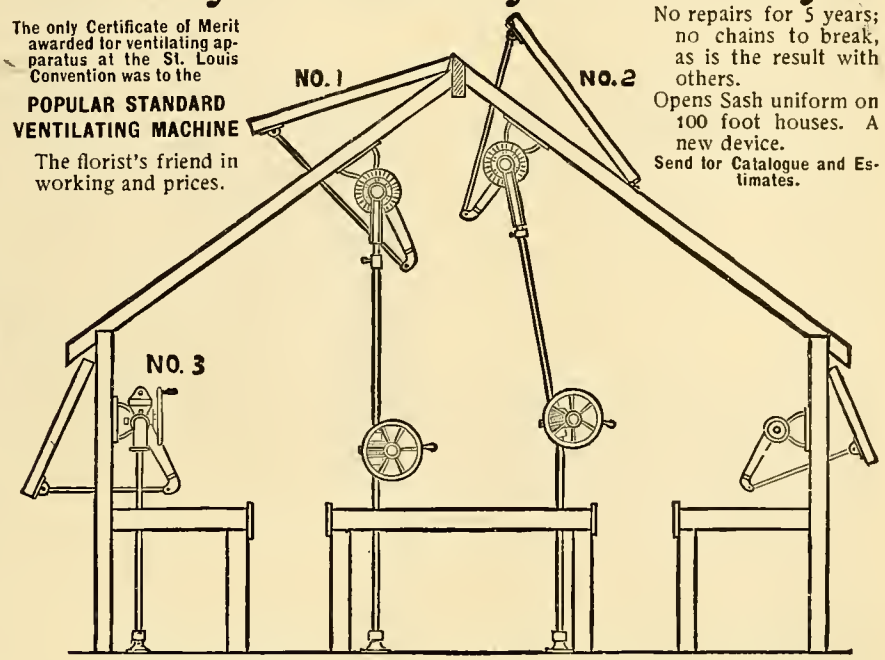
GLASS. ROCK BOTTOM PRICES. Send for Estimate. Satisfaction Guaranteed.
REED GLASS CO.,
65 Warren St., and 46, 48 & 50 College Place, New York City.

Victory! Victory! Victory!

The only Certificate of Merit awarded for ventilating apparatus at the St. Louis Convention was to the

POPULAR STANDARD VENTILATING MACHINE

The florist's friend in working and prices.



No repairs for 5 years; no chains to break, as is the result with others.

Opens Sash uniform on 100 foot houses. A new device.

Send for Catalogue and Estimates.

E. HIPPARD, YOUNGSTOWN, OHIO.

D. H. ROBERTS,

159 and 161 S. Fifth Avenue, - NEW YORK,

NATURAL GAS MADE GLASS,

FOR ROSE HOUSES, CONSERVATORIES, ETC., ETC.

☞ Look at our WORLD'S FAIR EXHIBIT in Horticultural Building.

FRENCH GLASS For CONSERVATORIES, ROSE HOUSES, Etc. Etc.

VANHORNE, GRIFFEN & CO.,

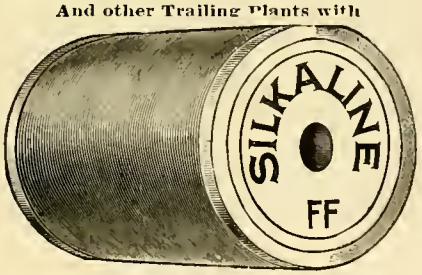
Importers of PLATE and WINDOW GLASS. Manufacturers of BENT GLASS and FRENCH MIRRORS.

131-133-135-137 FRANKLIN STREET, NEW YORK.

Note—Imported Glass is used in the best grade of Greenhouse building

STRING SMILAX

And other Trailing Plants with



JOHN C. MEYER & CO.,
289 Devonshire St., BOSTON, MASS.
For sale by all leading Florists' Supply Houses.

J. N. STRUCK & BRO.

Manufacturers of

• CYPRESS • Greenhouse Material,

LOUISVILLE, KY.



SCOLLAY'S IMPROVED PUTTY BULB,

For Glazing Sash, Etc.

— ALSO THE —

Patent Plant Sprinkler

For sale by your Seedsman, or sent, postpaid, for $1.00.

JOHN A. SCOLLAY,
74 & 76 Myrtle Ave.,
BROOKLYN, N. Y.

Send Stamp for Catalogue.

EVANS' IMPROVED

CHALLENGE VENTILATING APPARATUS

Write for Illustrated Catalogue.

QUAKER CITY MACHINE WORKS, Richmond, Ind.

GURNEY Hot-Water Heaters FOR Greenhouses.

Send for a copy of our book "How best to heat our houses."

GURNEY HOT-WATER HEATER CO.
163 FRANKLIN ST., BOSTON.

Branch Office: 59 Wabash Avenue, Chicago, Illinois. Selling Agencies: Johnson & Co., 71 John St., New York City. J. C. F. Trachsel, 246 Arch St., Philadelphia

Index to Advertisers.

Abel C C & Co.....323 327
Adv. Rates, etc.....324
Art Floral Co.....326
Baller F A.....325
Barnard W W & Co 327 329
Bay State Hdw Co.....333
Bayersdorfer H & Co..332
Bean Mrs J P & Co....326
Berger H H & Co.....327
Black Andrew L.....327
Bonsall Jos E & Son...325
Boston Letter Co.....333
Brague L B.....333
Brauer & Richter.....330
Brown & Canfield.....329
Burki Fred.....330
Burns & Raynor.....325
Burrow J G.....330
Burton John.....329
Carman R W.....335
Carmody J D.....333
Chandlee Geo H.....334
Corbrey & McKellar...324
Creighton Geo.....326
Daacke H A.....327
Dailledouze Bros.....330
Deamud J B & Co.....324
Degner Wm.....331
De Lamater Iron Wks.333
Dillon J L.....326
Dreer H A.....328 329
Elletson J.....332
Elliott W H.....324
Ellison Wm.....324
Ely Z De Forest & Co..327
Evenden Bros.....328
Forstermann L.....326
Gardening Co The.....326 329 331 335
Gibson J C.....329
Goodyear Rubber Store.....332
Griffith N S.....328
Gurney Heater Co.....335
Hall Ass'n.....331
Hancock Geo.....328
Hart James.....325
Hart Michael A.....325
Hart & Crouse.....336
Hartford H E.....333
Herr Albert M.....328
Hews A H & Co.....334
Hilfinger Bros.....334
Hill E G & Co.....326 331
Hippard E.....335
Hitchings & Co.....336
Hooker H M Co.....333
Horan Edw C.....325
Hulsebosch Bros.....327
Hunt E H.....325
Hunt M A.....326 329
Hunter Frank D.....325
Huntington Seed Co...332
Irvine John Co.....327
Jennings E B.....328
Joosten C H.....327
Jordan Floral Co.....329
Kaufmann Ernst & Co.332
Kelsey Harlan P.....326
Kennicott Bros.....325
Kift Joseph.....329
King Seed Co.....329
Krick W C.....333
Kroeschell Bros.....334
Kuehn C A.....324
Kuhl Geo A.....326
La Roche & Stahl.....324
Lockland Lumber Co.....334
Long Dan'l B.....324
Lonsdale Edwin.....328
Lord & Burnham Co...336
McCarthy N F & Co....325
McFarland J H.....331
McFarland J H Co.....335
Manz J & Co.....333
Marschuetz & Co.....332
Meyer John C & Co...335
Michel Plant & Bulb Co.....328
Millang Bros.....325
Moffatt G J.....327
Moninger Jno C.....336
Murray S.....323
Niles Centre Floral Co.325
Ouwerkerk P.....332
Parmenter Mfg Co.....334
Pennock C J.....328
Pennock Sam'l S.....324
Pierson F R Co.....324
Pittsburg Clay Mfg Co.334
Quaker City Mach Co..335
Randall A L.....325
Reed Glass Co.....335
Reed & Keller.....332
Reimschneider Ernst..327
Roberts J H.....335
Roehrs Theo.....325
Rolker A & Sons....327 332
Sander & Co.....326
Schofield D C & Co.....334
Scollay John A.....335
Scott Alex.....330
Sehlre P & Sons.....323
Sheridan W F.....325
Sherman D B & Son....326
Sherwood Hall Nur Co.327
Siebrecht & Wadley....326
Situations, wants.....323
Spooner Wm H.....329
Storrs & Harrison Co..328
Streby S O.....323
Struck J N & Bro.....335
Sunderbruch H L.....325
Sutherland Geo A.....325
Swayne Edward.....328
Syracuse Pottery Co...334
Tricker Wm.....326
Tritschler M.....326
Van Horne Griffen & Co.....335
Vaughan J C.....324 326 327 330
Walz Fred S.....330
Waterbury Rubber Co.333
Watson G C.....327
Weathered's Sons T W.336
Weeber & Don.....327
Welch Bros.....325
Whilldin Pot Co.....334
White John.....323
Whitehead Geo B.....328
Wight W P.....335
Wittbold George.....332
Wolf E E.....335
Wood Bros.....332
Young John.....325
Young Thos Jr.....324

KANSAS CITY, MO.—Garner Bros. have purchased the late T. C. Ingram greenhouse plant at 506 and 508 Brooklyn avenue and will conduct a general retail business.

ERIE, PA.—Henry A. Niemeyer has purchased a new four story brown stone front building at 1108 State street, in which he will open a retail store with a full line of flowers and florists' goods in addition to seeds, bulbs, etc.

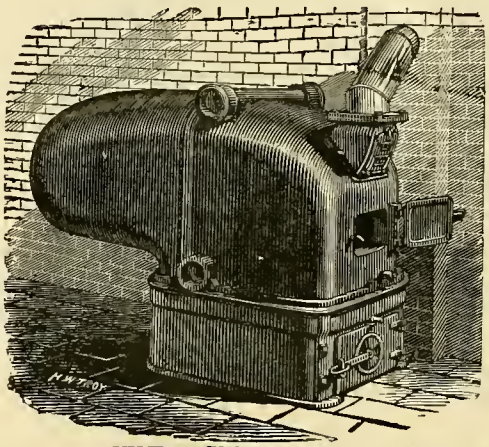
CYPRESS GREEN HOUSE MATERIAL

CLEAR CYPRESS SASH BARS

HOT BED AND VENTILATING SASH

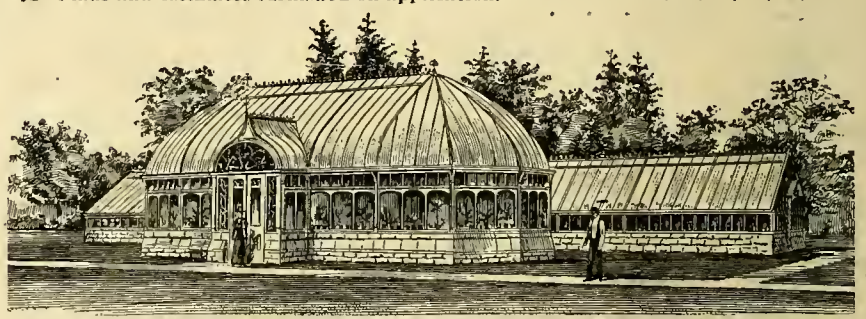
JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

GREENHOUSE HEATING AND VENTILATING
Horticultural Architecture and Building.



HITCHINGS & CO.
Established 1844.
233 Mercer St., New York.
FIVE PATTERNS OF BOILERS.
NINETEEN SIZES.
Perfect Sash Raising Apparatus.
Rosehcuses, Greenhouses, Etc., of Iron Frame Construction, Erected complete, or the Structural Iron Work shipped ready for erection.
Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Top.
SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.

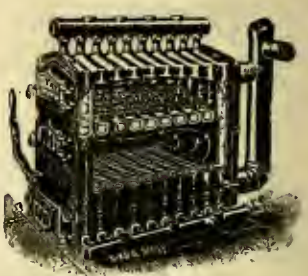
LORD & BURNHAM CO.
Horticultural Architects and Builders,
STEAM AND HOT WATER HEATING ENGINEERS.
Plans and estimates furnished on application.



Front view of a portion of our exhibit at the World's Fair.
SEND FOUR CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.
LORD & BURNHAM CO., Irvington-on-Hudson, N. Y.

ROYAL HEATERS
The right kind of Boiler in a greenhouse means success with flowers.

HART & CROUSE,
UTICA, N. Y.



THOS. W. WEATHERED'S SONS,
INCORPORATED.
Horticultural Architects and Hot Water Engineers
Send for Catalogue, enclosing 4 cents in stamps.
No. 244 Canal St., NEW YORK CITY.

Goodell HH Mass Agri Col 15 D 93

THE AMERICAN FLORIST

A WEEKLY JOURNAL FOR THE TRADE

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. IX. CHICAGO AND NEW YORK, NOVEMBER 16, 1893. *No. 285*



Scale
1 foot.

CHRYSANTHEMUM MAJOR BONNAFFON.

CONTENTS.

Exhibitions—Chicago (5 illus) 338
—New York 342
—Philadelphia 342
—Boston 343
—Indianapolis 344
—Baltimore 344
—St. Louis 347
—Newport 348
—Montreal 349
—Providence 350
—Worcester, Mass 350
—Milwaukee 350
Boston 350
Toronto 350
The seed trade 354
News notes 354
Yonkers, N. Y. 356
Cromwell, Conn 358
Indianapolis 360
Chicago 362

Our Illustrations.

In this issue we present five engravings of seedling chrysanthemums shown at the World's Fair Exhibition, three of them in color. The audacity of attempting to issue colored prints within nine days from time of photographing seemed at first to take the breath away from the engraver and printer, but they finally recovered themselves and by crowding things at a remarkably rapid rate of speed we have been enabled to present in this number exceedingly life-like pictures of these prize-winning varieties, adding even the color of the flowers, which means so much in a chrysanthemum, as in other florists' flowers.

Owing to the way the work was rushed in order to be used in this issue it is not as smoothly done as we would wish, but it is certainly excellent in view of the very short time allowed the printer.

The work is done by an entirely new process now made use of for the first time, all the colors being printed from the same plate. The possibilities of this process are great and we hope to be able to print many similar but better colored pictures of the kind in future issues.

The pictures tell the story better than any description and it only remains to add that Inter-Ocean is a creamy white suffused with pink, having the form of Viviand-Morel, one of its parents. All

were described in detail on page 312 of last issue.

The scale given below each engraving will give an exact idea of the size of the flowers illustrated. The comparative size has been preserved as in the pictures in last issue, except in the case of the white California variety, which is given full life-size.



THE EXHIBITIONS.

The World's Fair Show.

The "Queen of Autumn" has descended from the throne erected in the Art Institute, Chicago, and her World's Fair court reception is over. During the nine days 17,531 of her subjects paid her homage, and incidentally a half dollar at the box office, while several thousand others held special invitations that were not passed upon by the ticket seller. The only thing to regret is the extremely unfavorable weather that prevailed from Wednesday to the close. From the opening, Saturday, till Wednesday the attendance steadily increased, but on the latter day a drizzling rain set in, followed by a dense fog, the like of which had never before been seen in this section within the memory of the oldest inhabitant. This continued Thursday. On Friday it was clearer, though far from what was to be desired, and the attendance began to climb again. Saturday was about the same as Friday, but Sunday was the most unpleasant day conceivable. A cold rain fell steadily all day and the wonder is that even 500 people found the show such an attraction as to lead them to brave the elements to get there. Under these circumstances the attendance was certainly most gratifying, especially as all premiums and other expenses were covered by the receipts and there will be even a fair surplus. The total receipts from admissions were $8,765.50.

While there was of course room for criticism the show was undoubtedly a grand success from every point of view, for this is the universal verdict of every trade visitor familiar with exhibitions, and that it was national in character is shown by the many states represented by exhibits. Indeed one award was made to a firm in England. This was for the new chrysanthemum Charles Davis, which was grown here for the English firm and shown in their name, and the variety has not yet been disseminated either here or abroad. In view of this entry and those from Canada the show may be said to have been International. All praise to the men who conceived and carried to a successful issue this grand exhibition, and to Robert Craig, of Philadelphia, most credit is due, and he was ably seconded by Messrs. James Dean, New York; E. G. Hill, Richmond, Ind.; W. H. Chadwick, J. T. Anthony, J. C. Vaughan, W. C. Egan, J. A. Pettigrew and O. P. Bassett, Chicago.

Among visitors at the exhibition who came late or were not mentioned last week were Aug. S. Swanson, St. Paul; E. Suder, Toledo, O.; J. M. Gasser and wife, Cleveland; Mrs. E. G. Wilson, Cleveland; E. Haentze, Fond du Lac, Wis.; F. L. Bills and wife, Davenport, Ia.; W. A. Harkett, Dubuque, Ia.; Sam W. Raymond, Jr., and sister, Ottawa, Ill.; F. P. Dilger, Milwaukee.

The absence of President W. R. Smith from the exhibition was much regretted. He was very active in furthering the project when first proposed and expected to have seen it through, but shortly before the date of opening he received an injury through a slight fall while stepping over a railing at the Fair that made it wise for him to at once return home.

MISCELLANEOUS AWARDS, THURSDAY.

The competition in the rose classes was much the same as on previous days. O. P. Bassett was first with American Beauty, American Belle, Mme. Caroline Testout, Meteor and Perle des Jardins; second for La France. C. A. Samuelson was first for Bridesmaid, Catherine Mermet and La France. Peter Reinberg was first for Papa Gontier and any other variety; second for Mme. Caroline Testout and Meteor. G. W. Currey & Son, Nashville, Tenn., was second for Mme. Cusin, Perle des Jardins and Papa Gontier. Oakwood Rose Gardens, Oil City, Pa., received a special prize for Brides, the flowers being exceedingly fine specimens.

For the best 50 blooms of white carnations first prize went to Stollery Bros., Argyle Park, Ill.; second to Geo. Reinberg, who also received second for best 50 pink, the first going to the Art Floral Company.

For best 100 violets, blue, first prize went to Thos. De Voy, Poughkeepsie, N. Y.; second to O. J. Friedman, Chicago, who received first for 200 lily of the valley.

THE BANQUET.

The Chrysanthemum Show banquet of the Chicago Florist Club was held at the club rooms, 45 Lake street, last Thursday evening, and was a most enjoyable affair. Some sixty members and visitors were present and were seated at a long table with a smaller round one at one end, liberally decorated with flowers, while the benches along the wall parallel to the table bore numerous arrangements of plants and foliage that were very effective as a background to the scene of gay diners at the table. The supper was excellent and well served, and with the advent of the coffee and cigars President P. J. Hauswirth, who presided, presented Mr. G. L. Grant as toast-master of the evening.

The first toast was to the New York Florist Club, and Mr. Jas. Dean of that city was called upon to respond. Mr. Dean was received with long continued applause and responded in a very pleasant speech, in which he expressed much gratitude at the warm reception that had been given him and the friendly feeling displayed toward the Florist Club of the metropolis. He spoke in glowing terms of the exhibition then in progress in this city, and said that he hoped to see it bettered next year by the Chicago florists alone. Mr. Dean was obliged to leave at 11 o'clock in order to take the 11:30 p. m. train for the east, which was much regretted by the others present.

The next toast was "The influence of exhibitions upon commercial floriculture," and Mr. Robt. Craig, of Philadelphia, was called upon to respond. Mr. Craig reviewed the history of exhibitions in this country, and pointed out clearly the great effect they had had in the remarkable progress of the trade in the last ten or fifteen years. And he predicted that the effect would be more and more potent as the exhibitions were improved and made more popular with the general public. He rejoiced over the success of the great exhibition at the Art Institute, and believed that it would give floriculture in this city particularly a very strong impetus. He spoke of the many difficulties that the managers of the exhibition had labored under through the necessarily sudden change of location, and paid a high tribute to the Chicago push and energy that made it possible to attain success in the face of such obstacles. He described the committee in charge as being one day completely intoxicated with enthusiasm, and then after the sad occurrence that threw a gloom upon the closing days of the Fair and changed all their plans, being in utter despair. But within an hour the recovery had come, all went to work with a will, the new location was secured and the exhibition had met with final success.

In response to a toast to the Horticultural Society of Chicago President W. H. Chadwick acknowledged the compliment to the Horticultural Society and returned thanks on its behalf to the florists who had joined hands with it and made the various exhibitions given under its auspices such grand successes. He felt that the society owed its whole life to the florists of the city, as from them came not only the exhibitors but the real active workers in the carrying out of the details of the exhibitions. He felt particularly gratified at the success which had followed the efforts of the society, in conjunction with the other gentlemen who had backed the affair financially, in making this truly a World's Fair exhibition, with entries from the Atlantic to the Pacific and from Canada to New Orleans. He felt it a great honor for the Horticultural Society of Chicago to take the prominent part it had in an exhibition of such widespread interest to all lovers of flowers in America.

A toast to the Florist Club of Philadelphia was responded to by Mr. Edwin Lonsdale of that city in a few words, expressing his great appreciation of the courtesy to his club and of the privilege he had had of viewing the World's Fair Chrysanthemum Show and meeting the many pleasant gentlemen he had come into contact with while here. His remarks were so brief that the toast-master refused to allow him to take his seat without first singing his famous song "The brave old Duke of York," which he then rendered in his own inimitable style with appropriate interruptions by Mr. E. A. Wood, who sat beside him. Everybody joined in the chorus and at the conclusion gave the singer the tumultuous applause that always follows this song when sung by Mr. L.

The Gardeners' and Florists' Club of Boston was then toasted, and Mr. E. A. Wood of that club responded in a felicitous address interspersed with humorous references to his experience in judging at exhibitions, and the trouble he had getting along amicably with his associate, Mr. Lonsdale, who sat beside him. During the course of his remarks there were several humorous passages at arms between them that furnished much amusement to the others at the table. In introducing him to the company the toast-master had related how he had met Mr. Wood in Washington in the street wearing a long bean pod pinned to his coat as a Boston badge. Referring to the bean Mr. Wood wished it distinctly understood that it did not *grow* in Bos-



Scale
1 foot.

CHRYSANTHEMUM CHALLENGE.

ton. He admitted that the luscious bean was freely eaten there, but notwithstanding the popular idea to the contrary Boston was not the center of production of the aforesaid edible. In response to a special request Mr. Wood concluded his remarks by singing a sleighing song, "Jingle Bells," using a couple of glasses for bells, which example was imitated by all the others in the chorus with grand effect.

Mr. E. G. Hill, of Richmond, Ind., was not feeling very well and begged to be excused early in the evening, but later on his enthusiasm arose, and in response to a call he attempted to tell the boys how to grow $100 prize seedlings. He was greeted with applause, and after some humorous reference to the prize winners he said a few words regarding the grandness of the exhibition in progress and expressed his great gratification that it had been such a success in spite of the obstacles that had continually presented themselves.

Mr. Burt Eddy, of Chicago, introduced as the only original Sir John Falstaff stepped out from the pages of Shakespeare for the special edification of the people of the present century, favored the company by reciting the well known poem of Oliver Wendell Holmes entitled "The old man dreams." It was delivered with grand effect and received with long continued applause, and in response to a recall he gave a humorous sketch of an old parson at a camp meeting, which was likewise very effectually delivered and which brought down the house.

Mr. J. C. Vaughan then responded to a call and paid a glowing tribute to those who had come to Chicago to make the World's Fair and the chrysanthemum show the grand success that it was. He felt that Chicago owed a very great deal to those in the trade in the other cities for the grand work that they had done and that Chicago florists had been exceedingly fortunate in having this opportunity to be brought into personal contact with the distinguished members of the trade, who had been here most of the summer.

Messrs. A. C. Brown, of Springfield, Ill., and J. M. Gasser, of Cleveland, O., also made brief addresses.

Others present from a distance were M. A. Hunt, Terre Haute, Ind.; Judson Kramer, Marion, Ia.; E. Suder, Toledo, O.; W. C. Craig, Philadelphia; L. Schiller, Berlin, Germany; O. Tomiyami, Japan.

Among local members present, and not previously mentioned, were J. A. Pettigrew, Frederick Kanst, O. P. Bassett, Jas. I. Donlan, H. Holzapfel, Jr., J. B. Deamud, Chas. McKellar, Walter Kreitling, Hubert Maas, E. Buettner, J. T. Anthony, E. Wienhoeber, J. F. Kidwell, Geo. W. Miller, C. Stromback, P. Neiglick, W. Kirkham, J. Gormley, W. J. Smyth, T. J. Corbrey, and others.

The event closed by all joining hands, and led by Mr. Craig, singing Auld Lang Syne, when the company dispersed, all voting the evening one long to be remembered.

THE TABLE DECORATIONS.

Friday was finally settled upon for the competitive display of table decorations. This was unusually interesting; ten exhibitors competed, and their displays were, without exception, beyond the usual average. The judges were five ladies well known in Chicago society.

The three prizes were all awarded to Chicago florists. The first ($100) went to C. A. Samuelson for a decoration of American Beauties. The table was round; in the center was a tall trumpet shaped glass vase filled with the roses; long stemmed Beauties, heads outward, lay in a radiating circle around the vase, on a bed of ferns. Although this received the first prize the towering vase, beautiful in its place, but too topheavy for a

dinner table, was not generally admired.

The second prize ($75) went to Joseph Curran for an arrangement of orchids. This was a rectangular table, having in the center an oval rustic holder filled with Vanda Phalænopsis and Cypripedium insigne, with adiantums. The favors for the ladies were Cattleya Trianæ and for the gentlemen Cypripedium Spicerianum. This was a very attractive table, and it was entirely free from overcrowding, a defect evident in several other cases.

The third prize ($50) went to P. J. Hauswirth; his table was regarded by the judges as so even with Mr. Curran's that it was only after repeated ballots that they arrived at a decision. Mr. Hauswirth's table was round; in the center was a plateau of Cattleya Trianæ and Adiantum Farleyense. This stood upon a circular mirror, bordered with adiantums interspersed with a few croton leaves. To our mind it was the richest table in the hall, though it would have been improved had the orchids been given a little more elevation above the ferns.

A third orchid arrangement was shown by O. J. Friedman. In the center was a glass bowl filled with cattleyas and Vanda cœrulea; four smaller bowls stood around it, filled with similar flowers, while sprays of orchids upon asparagus were laid upon the table. Sprays of lily of the valley, with the name of the guests painted upon the leaves, were put at each plate, and lily of the valley formed the favors.

Roses appeared as chief feature on two tables only, the first prize being one, the other a very pretty arrangement of La France and Adiantum Farleyense by Gallagher. This was a round table, having in the center a circular plateau of roses and ferns, while around it were specimen glasses containing roses for the favors. It was a very dainty table, and very well arranged.

Owing to the fact that several of the designers of chrysanthemum tables were not aware that other flowers were admissible, this change having been made at a late date, a special class was made for their benefit, and the first prize, a Columbian medal, went to J. M. Gasser, of Cleveland, for his yellow table; the second to Mrs. Ella G. Wilson, also of Cleveland, for the table arranged in white and silver.

Mr. Gasser's table had for its center piece a long low plateau of yellow chrysanthemums; at one end was a vase of white chrysanthemums, at the other white candelabra. This was really very handsome.

At its side was another table of similar shape; in the center was a tall trumpet shaped vase filled with pink chrysanthemums, arranged with perfect grace; this stood on a diamond shaped mirror, bordered with adiantum studded with Mrs. Hardy chrysanthemums and lily of the valley. This was the work of Aug. S. Swanson, of St. Paul. The favors were valley and chrysanthemums.

A pretty little table in the south hall had a center plateau of pale pink and white chrysanthemums, with lily of the valley in the center; the favors were valley, tied with pink satin ribbon, and the candelabra were decorated with adiantum. It was very dainty, but the decorator had made the serious error of gilding some of the Farleyense fronds, giving a meretricious look.

The second prize chrysanthemum table was large and circular. In the center was a tall trumpet shaped vase of sea green glass filled with The Queen chrysanthemums. Surrounding this, but at some distance from it, was a drapery of silver gauze, with white chrysanthemums caught here and there in its irregular folds. The favors were white chrysanthemums and ferns. The silver candelabra were decorated with ferns. This table was extremely dainty, and the soft tints of green, white and silver were refreshing and artistic, but there was too much millinery about it, and the accessories confused its values.

The remaining table was decorated by Walter Kreitling for a masculine dinner; in the center was a circular mirror, a mimic lake, surrounded by a border of ferns and violets. At one side was a bank of ferns, and on this was a large and corpulent turtle, wearing an ivy leaf shell and violet legs. Vases of La France stood around this and the favors were violets and La France, tied with pink ribbon.

Taken as a whole the display was a very educational one. We secured photographs of seven of the tables from which we expect to have engravings for our next issue, and in that number we shall give a careful review of each table illustrated, commending and criticising from our point of view.

On Friday there was another competition in roses in which W. A. Kennedy, Lake Forest, Ill., won firsts on Bridesmaid and Gontier; Anchorage Rose Co., Anchorage, Ky., on Mermet; C. A. Samuelson, Chicago, on Meteor, Perle and any other variety; Oakwood Rose Gardens, Oil City, Pa., special for Brides.

FOR AMATEURS ONLY—FRIDAY.

Medal for best general display of cut chrysanthemums was taken by Mr. Zimmerman, gardener to A. Schoeninger, Chicago. Medal for best 48 varieties cut blooms one of a kind was taken by D. M. Baker, Adrian, Mich. Also to D. M. Baker for best vase of 50 blooms.

THE BASKETS—SATURDAY.

The special feature for Saturday was a competition in arrangement of basket of flowers and there were six entries.

First prize, a Columbian medal, was taken by J. M. Gasser, Cleveland, with a beautifully arranged round handle basket of Brides and Bridesmaids, the colors very artistically blended, a tastefully arranged spray of the roses tied on the handle by a sash of wide white ribbon.

Second prize, $25, was awarded to Mrs. E. G. Wilson, Cleveland, for a very gracefully arranged square handle basket of Meteors, Brides and Perles. The colors were nicely blended, and at the end where the Meteors were the flowers were carried up and over the handle terminating in a spray.

Third prize, $15, went to the Art Floral Co., Chicago, for an oval handle basket of Meteors and Perles; the arrangement was fairly good but rather lacked in grace.

C. A. Samuelson, Chicago, showed an oval handle basket of Meteors. But on the handle was tied a sash of ribbon just enough off from the Meteor shade to spoil the color harmony.

Albert Fuchs, Chicago, entered a round cornered square basket of La France roses, the attempt in the arrangement evidently being to give the impression that some of the flowers had fallen and others were falling from the basket. The conception was good but the execution lacked artistic finish.

The entry by O. J. Friedman, Chicago, was more of an urn than a basket. It was filled with American Beauties and the arrangement was good, though perhaps a trifle lacking in grace at the top.

On Saturday a medal was awarded to J. T. Anthony for display of miscellaneous cut flowers and filled ornamental fern pans.

THE VASES—LAST DAY.

On Saturday it was announced that a special feature for Sunday—the last day—would be a contest in arrangement of vases of chrysanthemums, with prizes of $40, $30 and $20. In spite of the short notice there were eight vases entered and the display was a superb one. It is a shame that they were seen by so few people, the steady downpour of rain all day and evening making the attendance the smallest of any day of the exhibition. But the florists were there and it was an extremely educational contest to them.

A most excellent feature was a written report by the judges, Messrs. E. A. Wood and Edwin Lonsdale, from which we make full extracts below.

The winner of the first prize was a large vase of chrysanthemums of mixed colors arranged by Mrs. E. G. Wilson, of Cleveland, ferns and asparagus being used among the flowers. In their report the judges said: "A very beautifully arranged vase showing artistic merit. The blooms are of A1 quality clothed with beautiful foliage and are so arranged that their good qualities are all made prominent and are not at all bunched. It only lacks a little bright color. The base is well balanced, of symmetrical form and adapted for all purposes where a vase of this style is desired."

The second prize was awarded to J. M. Gasser, also of Cleveland, for a superb vase of The Queen and Jerome Jones interspersed with asparagus, adiantums and other ferns. A beautiful feature was the carrying of the flowers down one side in such a graceful way as to create an exceedingly artistic effect. To our mind this was decidedly the most artistic piece of work shown during the entire exhibition, and we much regret that the day was so dark we could not secure a photograph of it for illustration. Following is the report of the judges: "Very artistically arranged, flowers of very good quality, but contains some poor specimens and not adapted for all things. A beautiful vase to place in a corner or against the wall, but not at all adapted for center of hall or any location where it must be viewed from all sides."

Third went to M. F. Gallagher, Chicago, for a vase of mixed colors on very long stems and the flowers widely spread apart, asparagus being used as additional green. Upon this the judges reported as follows: "A very well arranged vase, the flowers of good quality. The foliage is quite clean, of good color but arranged so that it looks heavy. The effect that the Asparagus plumosus should bring out is thereby entirely lost. It lacks artistic finish, many of the flowers of different colors being bunched, many large open spaces being observed. Is not as well finished at the base as some of the others shown."

Following we give the judges' report upon the other entries: Vase arranged by P. J. Hauswirth, Chicago.—"What would have been a pretty combination of pink and white is marred by the introduction of some blooms of purple tint placed in too close proximity to the shell pink. The vase lacks symmetry, is not carried high enough and the blooms fall away from the center."

Vase arranged by Walter Kreitling, Chicago.—"A vase of very fine blooms and of good conception, but lacks artistic finish, the symmetry seems to be entirely



Scale
1 foot.

CHRYSANTHEMUM EUGENE DAILLEDOUZE.

lost, for from whatever side it is viewed it appears angular. The flowers are badly bunched."

Vase arranged by C. A. Samuelson, Chicago.—"A vase of fine yellow blooms not artistically arranged and lacking symmetry. Flowers in many places being bunched, losing thereby their individuality and gaping holes in others, showing foliage dull in color. It also is not arranged for all purposes and can not be placed in a position where it would be viewed from all sides. This vase is not finished at all at the base."

Second entry by P. J. Hauswirth, Chicago.—"The judges are of the opinion that this vase would have been more effective if one shade of yellow had been used. The ouality of the blooms is very irregular, some very fine blooms and others of inferior quality, and badly bunched in some places. The vase lacks symmetry and also shows some large vacant places."

Second entry by M. F. Gallagher, Chicago.—"This vase contains blooms of third rate quality and lacks style and finish, and is not considered a worthy exhibit for such a large premium."

It seems to us that a good thing to consider in connection with the offering of future prizes for best arranged vases is, how much value shall be given to quality of flowers as against skill in arrangement. While quality of flowers is certainly very desirable, and up to a certain point, essential, still we are of the opinion that much more value should be given for skill than for quality of flowers. The greatest artist is the man or woman who can take inferior material and by the exercise of taste and skill create an artistic effect, and we believe that the needed stimulation to such talent can best be supplied by so framing premium offers at exhibitions as to make the contests as nearly as possible those of skill alone.

In this connection we point to the significant fact that in the judgment of the ladies who made the awards on table decorations the greatest fault of nearly all the entries was overcrowding and the too free use of material, showing that from their point of view the value of artistic simplicity was not well understood by the competitors. We shall go deeper into this important subject in our next issue.

PAID ADMISSIONS.

1st	day,	Saturday,	1,096
2nd	"	Sunday,	1,630
3rd	"	Monday,	2,151
4th	"	Tuesday,	3,107
5th	"	Wed. (bad wth'r)	1,900
6th	"	Thurs. "	1,788
7th	"	Friday, (clearer)	2,640
8th	"	Satur. "	2,646
9th	"	Sun. (h'vy rain)	573
Total for 9 days			17,531

New York.

The exhibition of seedlings at the chrysanthemum show on Wednesday was one of the most interesting features of the week. Much surprise was expressed, however, that the number of new varieties showing any very decided advance on existing kinds should be so small. The variety taking first prize in yellows was Eugene Dailledouze, shown by E. G. Hill & Co. This has all the requirements of a first class flower. It is a large incurved, rich golden yellow, good depth and substance, immense petals, and in foliage, stem and shape is simply perfect.

E. G. Hill & Co. also took first premium for any variety exhibited prior to 1893 but not yet in commerce with another grand yellow named Challenge. This in style and shape resembles Ed. Hatch. The color is similar to that of Eugene Dailledouze and stem and foliage are grand. It is undoubtedly one of the best novelties of the year. A certificate was awarded to Hill & Co. for Butterfly. This is an amber bronze, much in the style of Harry May but broader and flatter. Other varieties worthy of note, by the same exhibitors, were Louise D. Black, a magnificent mammoth Chinese, light pink on reverse and deep pink on inside of petal, and Beau Ideal, a soft pink slightly incurved flower with beautiful broad petals.

To J. N. May was awarded a certificate of merit for Minerva, a grand flower of great depth, which when not too far developed is much like a large Ivory, color canary yellow. The foliage and stem perfect. Mr. May also took the prize offered for the best seedling of any color with Pearl, a variety much resembling Ed. Hatch, but with better stem and foliage. Mr. May's Pink Pearl of last year, now renamed Wm. Simpson, a very large, loose incurved pearly pink with fine stem and foliage, was also certificated.

"Pitcher & Manda," the parti-colored variety described in our notes on Pitcher & Manda's exhibition two weeks ago was awarded a certificate of merit. This is one of the most striking novelties.

H. F. Spaulding received a certificate for a variety named Miss Helen Bloodgood, which is of a rich pink never before equalled. In shape it is somewhat like Domination, rather loose petaled, however. There is a slight touch of hairy protuberance. The foliage appears a little weak. Judge Benedict, by the same exhibitor, is a fine canary yellow in the way of Libbie Allen, more double and a better finished flower than that variety.

Thos. Jones was given a certificate for Robt. M. Grey, an apricot bronze, broader and flatter than Mrs. Alpheus Hardy and more thickly covered with down than any other chrysanthemum. It will be a valuable variety for amateurs.

A. H. Fewkes, shown by T. D. Hatfield, is a fine thing, somewhat similar to but several shades deeper than Minerva, described above. Not equal, however, in depth or center.

Mrs. E. T. Bragan, shown by A. F. Schrader, is like Minnie Wanamaker, but whiter and more double than that variety.

There were three competitors for the Actors' Fund Cup offered for the best wedding decoration, Geo. M. Stumpp, Warendorf Bros. and H. W. Wipperman, Mr. Stumpp being the lucky winner. The judges were Charles Thorley, Charles Dards and David Clark. As we expect to give illustrations of these three decorations in our next issue a detailed description of them is reserved until then. Messrs. Brower & Sons and Warendorf Bros. were the competitors in table decoration and took first and second prizes respectively. The decorations were in each case a mound of chrysanthemum blooms, Brower's being of Ivory and Warendorf's of Harry Balsley.

In miscellaneous classes silver medals were awarded to J. N. May for rose Mrs. W. C. Whitney, to E. Koffman for a house of smilax, and to Pitcher & Manda for specimen fern Leptopteris superba.

The show was a success financially and the club comes out with flying colors. The greater part of the exhibits will be left to constitute a portion of the attraction at the concerts of the Imperial Austrian Band, which extend through the following week. This is a just and proper tribute on the part of the club in recognition of Mr. Mestaniz and his associates in the management of the Industrial Building. These people have been gentlemen throughout, and their treatment of the Florists' Club has been characterized by the greatest kindness and consideration, which is all the more appreciated on account of its contrast with the tyrannical Shylock management which they have encountered in the past.

Among the visitors present were Wm. Robinson, W. H. Elliott and T. D. Hatfield, from Boston; Wm. Scott and J. F. Cowell, Buffalo; Geo. E. Fancourt and W. Clark, Wilkesbarre; Mr. Huss and Mr. Thompson, Lenox; Peter Crowe, Utica; P. R. Quinlan and L. E. Marquisee, Syracuse; Mr. Eyres and Sam Goldring, Albany; B. L. Elliott, Pittsburg; Phil. Breitmeyer, Detroit; H. Bayersdorfer, Philadelphia; W. H. Long, Boston.

Cut flower trade is improving. All are talking hopefully and prospects appear brighter. The stock of roses has shortened up somewhat and this with the increased demand has helped the situation greatly.

Philadelphia.

The chrysanthemum show just closed was the most successful the society has ever had in almost every respect, and in the one essential, the receipts, it has broken the record. It was the intention to have continued this show for two weeks as it was thought, and we believe rightly too, that the interest shown by the public would warrant the expense. The plants were as a rule in good condition at the close of a week's campaign, and a fresh supply of cut flowers could easily be obtained, as some varieties are not at their best until a week following the usual time of the show. After the fire however, it was seen that suitable accommodations were not available and it was considered best to limit the time to one week.

Too much praise cannot be given the public press. All the daily papers gave good accounts of the show as it progressed. The *Ledger* and *Times* published whole columns and more of good matter with original illustrations, all of which contributed greatly to the success of the exhibition. Secretary Farson should come in for his share of the blame, for he worked very hard and naturally feels proud of the result. Superintendent John Westcott, and Chairman of committee of arrangements, David Bearn, were also indefatigable workers, as was Isaac Kennedy and his assistants. Everybody worked together and the result could scarcely have been otherwise than it was.

Probably the most prominent feature of the show and that which seemed to attract the most attention was the vases containing fifty chrysanthemums. We believe that more attention should be paid to this matter in making up next year's schedule. One vase of fifty choice blooms tastefully arranged and placed so that it can be seen from all sides will make more show and attract more attention than the same lot placed in bottles singly. We do not mean to do away with displays of varieties correctly labeled, but would curtail this feature and give more room for color effects such as are produced by massing fifty fine long stemmed blooms of one kind together. The vases of Ivory, Mrs. C. Lippincott and H. Balsley and other varieties containing fifty each were truly grand, but they were not displayed as they should have been, as on account of the limited space they were placed so close together that half their beauty was lost.

The idea of having the growers and dealers stage their exhibits of roses on different days was a good one, as it insured a fresh lot of these perishable flowers each day. In the collections of cut roses these did not seem to be any advance, the quality of the stock being no better than last year. Would it not be well if premiums for vases of fifty or one hundred roses of a kind were offered? Such masses of color would certainly add to the display.

On Wednesday the first display of carnations and roses by dealers was made, Pennock Bros. and John Crawford being the only exhibitors. For roses Pennock Bros. received nine first and five second premiums and John Crawford was awarded six firsts and four seconds.

In carnations Pennock Brothers captured six firsts and two second premiums, while John Crawford was given two first and one second. The collections were all of twenty-five flowers each.

The seedlings were also passed on at this time and resulted as follows: To Wm. Jamison a silver medal for seven vases of seedlings, some of which will no doubt be heard from next year. Henry G. Surman, who raised L. C. Madeira, was given a silver medal for a variety similar to Madeira with a larger flower and the color of old gold; he thinks it will be a winner; it has been named Mrs. W. A. Reed. Wm. Boyce was also awarded a medal for his specimen of A. cuneatum. E. G. Hill of Richmond, Ind., received a certificate of merit for Mrs. Higinbotham, a very large pink loose incurved flower. Certificates of merit were also awarded to John N. May for seedling No. 333, a large yellow with fine foliage; to H. G. Surman for seedling Dr. H. M. Howe, of the Elkshorn type, pink in color, a good flower; to E. G. Hill for Eugene Dailledouze, a magnificent yellow noted before, the flowers of this variety seemed as fresh the last day of the show as they did the first; to Thos. Monoghan, for large dark rose, immense incurved, a wonder if a better color; to R. G. Carey and William Jamison for two promising seedlings; to Hugh Graham, for a pink seedling Katherine Leech, a very pretty flower. Special mention was made of Esther Heacock, a sport of Ada Spaulding, exhibited by Jos. Heacock; to Mrs. Chas. L. Sharpless, a good white, by H. Graham; also Bellevue, another good white by same grower; a seedling pink by H. G. Surman; a light daybreak pink by J. McCleary; and Robt. Owen and Dr. Wakely, English varieties exhibited by T. H. Spaulding. It is said that Robert Owen has been grown twelve inches in diameter in England.

Edwin Lonsdale was awarded a special premium for his fine collection of orchids, as was also William Joyce for his fine palms.



Scale
1 foot.

CHRYSANTHEMUM INTER OCEAN.

Honorable mention was made of John Shellem's seedlings in pots and of a variety similar to Viviand-Morel, exhibited by H. G. Standen.

On Thursday A. M. Herr, of Lancaster, exhibited a collection of carnations, very good flowers, among them a seedling, Annie Pixley, a very promising pink variety. Mr. Herr thinks it will be a winner. He was awarded a special premium for his display.

Robert Craig filled a table of choice chrysanthemum blooms, between the vases of which he placed neat plants of araucarias and crotons with fine effect.

The growers made their second exhibition of roses Saturday, a very fair display. The premiums were awarded as follows: T. J. Heacock, four firsts, four seconds and one special; to Hugh Graham, six firsts and three seconds; to David Cliffe, one first and one second; and to J. Welsh Young, one second and a special for three vases of carnations. A certificate of merit was given J. Kift & Son for a mantel decoration. J. C. Gibson, of Woodbury, exhibited a new coleus called Golden Crown, which looks like a good thing. M. P. McCaffrey had a fine dish of mushrooms.

On Friday the last display of cut roses by the dealers was made, Pennock Bros., John Crawford and J. Kift being the exhibitors. Pennock Bros. secured 12 first premiums and two seconds; J. Crawford five seconds; and J. Kift & Son three firsts and two seconds. K.

Seedlings at Boston.

Out of about forty seedling chrysanthemums exhibited the following were awarded first prizes:

Best red, Mrs. J. H. White; raised by James Wheeler.

Best white, Mutual Friend; raised by Mann Bros.

Best yellow, A. H. Fewkes; raised by T. D. Hatfield.

Best pink, Peach Bloom; raised by T. D. Hatfield.

Best any other color, Pitcher & Manda; raised by Pitcher & Manda.

Mrs. J. H. White is a large reflexed flower in the way of Mrs. A. J. Drexel but of a different color, it being as rich as Cullingfordii, but of the loose Japanese form. The flowers are borne on strong and stiff stems with ample foliage. Also awarded complimentary notice.

Mutual Friend is very large and full with broad and long drooping florets, making a very deep reflexed flower of the purest white; a fine stem and great keeping qualities. This was awarded a first-class certificate of merit.

A. H. Fewkes is a large and full flower with remarkably broad florets, recurved but not reflexed. The stem is very stout and clothed with rich green foliage. The color is a deep rich yellow throughout. Awarded a first-class certificate of merit.

Peach Bloom is a very full flower of good size borne on stiff stems. The florets are long and pointed and loosely reflexed. The color is peach blow pink.

Pitcher & Manda is a large, rather flat flower, full to the center, somewhat in the way of Wm. H. Lincoln. The color is white with centre florets a distinct yellow. It is the most distinct break seen here for several years. Awarded a first-class certificate of merit.

Other noticeable varieties were Pitcher & Manda's Dorothy Toler, a deep and full incurved of great substance and stiff stem. Deep pink in color with silvery reflex. Awarded a first-class certificate of merit.

T. D. Hatfield's No. 651, a large, full flower somewhat in the way of Waban but of a soft rose pink color. Complimentary notice.

James Brydon's Portia. A large flower of very peculiar form. The florets are long and broad, incurving and lapping over each other in a very remarkable manner, appearing as though the flowers had been smoothed with the hand, turning the petals all in one direction and giving the flower a perfect globular form. Color blush white. Complimentary notice.

T. D. Hatfield's Eiderdown, a white Kioto with stiff stems and hairy petals. [Is this the same variety T. H. Spaulding registered under same name?]

Pitcher & Manda's Mrs. Chas. Lanier, a fine incurved Japanese flower of a rich yellow, but the stem is not stout enough.

John E. Thayer's Sayonara, which was shown and certificated two weeks ago. It is a large reflexed flower in the way of Bride but light yellow in color and very early.

T. D. Hatfield's Wanlas, an incurved Japanese, flowers of large size and silvery pink in color.

E. A. Wood's Golden Hair, a fine flower of the ostrich plume type, bronzy yellow in color, but lacking in strength of stem.

Dr. H. P. Walcott showed a seedling incurved variety without name, in the way of Baron Beust, but more yellow in color with a peculiar shading.

A. H. FEWKES.

Indianapolis.

The seventh chrysanthemum show held by the Society of Indiana Florists opened under very auspicious circumstances Tuesday evening, Nov. 7. The fine weather, good attendance, well ordered displays and handsome decorations made every member feel that this year's exhibition would be a grand one.

Several changes in decoration and location of exhibits clothed the hall in a different dress from that of former years. Everyone on entering the hall was delighted with the general effect. In the center of the hall a liberty bell was suspended by laurel and Florida moss; below this was a miniature caravel, the "Santa Maria," made of cape flowers. The stage and gallery were effectively draped. The decorating was done by C. J. Truemper, assisted by members of the society. The center of the hall was laid out in a large circular bed of single stem chrysanthemums, pink, white and yellow, from Bertermann Bros. A good move was made by the committee in sending free tickets to all school teachers of the city schools, and many other free tickets were used for the opening evening.

In cut flowers and single stem plants a marked improvement was noticed over previous years, but in specimens very little if any improvement was noticed.

Seedlings were well represented, but only a very few were considered improvements over existing varieties. E. G. Hill's Eugene Dailledouze was the finest new yellow on exhibition, but was not entered for competition in the seedling class.

Fred Dorner & Son, Lafayette, Ind., received the prize ($25) offered by Nathan Smith & Son for the best yellow seedling. Their winner was Major Bonnaffon, a beautifully incurved globular yellow; it also received a certificate of merit. The silver cup offered by F. G. Darlington of Indianapolis for the best white seedling was won by Henry Rieman, Indianapolis. The flower is somewhat in the way of Ivory, but larger, snow white, and has the appearance of being a better shipper. Henry Rieman also won the prize ($25) offered by E. H. Hunt of Chicago for the best pink seedling, which was afterwards named Mrs. E. H. Hunt. It is a pleasing shade of pink, slightly incurved and very double. The prize offered by the Pittsburg Clay M'f'g Co. ($25) for the best seedling, any color, was awarded to Henry Rieman. This was a fine flower of good form, seven inches across and six inches deep; color between cherry red and terra-cotta. This variety had perhaps the finest foliage of any at the show.

A certificate of merit was awarded to Nathan Smith & Son for a red variety similar to G. W. Childs, but a larger and more incurved flower. Many other good seedlings shown were too weak in the stem to be considered. Some of them may be useful to our English brethren, where they show them on flat boards, but weak stemmed chrysanthemums are no use here. A certificate of merit was also awarded to E. G. Hill for his new early variety, Mrs. E. G. Hill, the flowers having been cut since October 10.

The beautiful Rockwood vase offered by J. F. Miller of Richmond, Ind., for best 20 blooms on long stem was won by E. G. Hill with a vase of Eugene Dailledouze, without question the finest vase of bloom in the show. It was an easy winner, although H. Rieman had some fine blooms too.

A life like Texas steer made of chrysanthemums was one of the centers of attraction on Thursday. A vase made principally of chrysanthemums took prize of $15 offered by the Pettis Co. A floral harp made by A. Wiegand was much admired, receiving prize ($25) offered by D. H. Baldwin.

Among cut chrysanthemums E. G. Hill received first for best 50, ten varieties (*Indianapolis News* special), first for ten blooms yellow, and first for ten blooms pink. Second and third prizes (*Indianapolis News* special), were taken by Henry Rieman and Bertermann Bros. respectively. Fred Dorner received second for best 10 blooms, yellow, and Bertermann Bros. for 10 blooms pink, white and any color. R. Witterstaetter took first for 10 blooms white, and G. R. Gause first for any color. Some very fine blooms were shown in these collections, prominent among them being a fine vase of H. E. Widener and Viviand-Morel in Hill's collection, and Golden Gate in G. R. Gause's collection. The Hill & Co. special ($15) for best 15 blooms was carried off by Hill & Co. first, Fred Dorner second.

In the plants the $100 premium for the best 10 plants was awarded to Henry Rieman, second ($60) to Fred Dorner, third ($40) Bertermann Bros., fourth ($25) was divided between Hill & Co. and A. Wiegand. The best specimens in Rieman's collection were W. H. Lincoln, H. L. Sunderbruch, Irma, Ivory and Viviand-Morel.

In the class calling for two plants Bertermann Bros. received first for white and second for any other color; Rieman first for pink, second for white and yellow; Wiegand first for any other color. For single specimen Rieman received first for white and pink; Bertermann first for yellow and second for white.

For the best 50 plants, single stem, Bertermann Bros. first for pink and yellow, second for white; John Hartje, first for white; Hill, second for yellow.

Detroit Pottery Works special, best 50 single stem, 6-inch pots, first ($15) H. Rieman; second ($10), F. Dorner.

The special offered by C. F. Whitsett for 20 cyclamen plants was awarded to A. Wiegand, Huntington Seed Co., and W. G. Bertermann. Special prizes of $25 and $15 were awarded to Wm. Hack and Huckreide & Son of Indianapolis. J. C. Vaughan's special of $20 for thirty market plants went to Huckreide & Son. In standards Bertermann Bros. were first.

Cut roses: The collections of roses were finer than ever before. M. A. Hunt, Terre Haute, Ind., received first for Meteor, Mermet and Niphetos; Chas. Wheatcroft, Indianapolis, for Perles and Brides; W. W. Coles, Kokomo, Ind., for Testout, Kaiserin Augusta Victoria, Watteville and Beauty. The Indianapolis Gas Co. special ($20), for display of cut roses, W. W. Coles.

Cut carnations were shown in large quantities; some fine vases were shown by Fred Dorner & Son, including Mme. Diaz Albertini, The Stuart, perhaps the finest scarlet ever seen here; Uncle John, the ideal white, and Wm. Scott. Peter Herb of Mt. Healthy, O., showed a new seedling named Adelaide H. Kresken. This is a very fine variety, large, being three inches across, dark pink, with perfect calyx and long stiff stems. This variety won the $15 offered by M. A. Hunt for best 25 blooms of new seedling not in commerce; second premium of $10 offered by E. G. Hill went to Fred Dorner. For best 50 blooms, white, Fred Dorner took first with Uncle John; John Hartje second with Snow Queen. Best 50 red, Bertermann Bros.; 50 pink, Fred Dorner; 50 blooms, any new variety, Fred Dorner. A certificate of merit was awarded to John Hartje for a promising white variety. Edward Swayne, Kennett Square, Pa., sent his two new varieties, Sweetbrier and Ophelia, but they arrived too late for competition.

The L. S. Ayres & Co. premium ($25) for best arranged table of cut flowers was won by Bertermann Bros. The orchid display made by Siebrecht & Wadley was a center of attraction; it was difficult to get anywhere near it. Bertermann Bros. made an effective arrangement in one corner of the hall, consisting of palms, ferns and florists' supplies, and also displayed a mantel decoration. The Huntington Seed Co. also made an effective display of their goods. The Indiana Horticultural Society's fruit exhibit was a new feature added to the show. Some grand specimens of apples and potatoes were shown from Oregon.

The Indianapolis Florists' Club entertained the visiting brethren in a royal manner on Wednesday evening at their club rooms. A bountiful spread was laid and everyone had a good time. Music and speech making made it a most enjoyable affair.

Thursday evening we were honored by the presence of Ex-Pres. Harrison, Gov. Mathews and family, Mayor Denny and family, and most of the state officers, but we missed the presence of "Little Woody."

Among the visiting brethren were E. G. Gillette, Cincinnati, Ohio; Peter Herb, Mt. Healthy; W. H. Elverson, New Brighton, Pa.; Henry Michel, Marion, Ind.; F. B. Tinker, Peru, Ind. The exhibitors seem well pleased with the judging this year, as they all declare they received more premiums than they expected.

Kokomo, Ind. W. W. COLES.

Chrysanthemum Mrs. J. Geo. Ils.

We present herewith a life-size engraving of a flower of this remarkable white chrysanthemum. The bloom was photographed on Wednesday, the 8th inst., and had been on exhibition two days after having been five days in a box, with its companions on the trip from San Francisco. The picture gives a side view of the flower to show its remarkable depth. Its form and great lasting qualities must give this sort a prominent place in commercial sorts, as the stem and foliage are good and judging from same it is probably a good grower.

As will be noted by referring to the engraving the lower petals had shrivelled and some had dried out, but not one had dropped or become broken.

Baltimore.

The club has scored another financial success, and the more gratifying as it was unexpected. The show was a great success. What if some of the largest plants around town were not open enough to show, and consequently the plants in unlimited sizes of pots were apologies in many cases instead of being the great



CHRYSANTHEMUM MRS. J. GEO. ILS. LIFE-SIZE SIDE VIEW OF FLOWER

mounds of flowers shown in the same class last year; the 6-inch pots and the cut flowers made glorious amends for any deficiencies in other classes.

The Cyclorama building never showed to better advantage than after being under the hands of Mr. Ekas for a day, and every one admired the general effect of the huge circular room, with the tables for cut flowers and designs arranged around the wall and the center divided into many beds of glowing color, by having, for the first time, plants of each class and division put where they should always have been put, side by side. On entering a bank of towering arecas from Mr. Wm. J. Halliday turned the stream of visitors to either side and served as a screen to hide the door from the balcony and other parts of the show. The massive central pillar was turned into a great palm tree in appearance, by the skillful use of palm crowns twenty feet up, and covering the lower part with long leaf pine and wild smilax.

The cut flowers were superb, and the flower that took first prize for the best single bloom, exhibited by Mr. C. Hess, was a grand Golden Wedding fully ten inches in diameter, a great fluffy mass of pure yellow without a blemish. The flower that took second was a Viviand-Morel, a perfect hemisphere of deep pink of nearly as great diameter as the first.

The decorated set tables, of which there were three, set for twelve persons completely, were very well done, though there was not the variety that might have been expected, all three being done in white chrysanthemums and adiantums. Halliday Bros., who received first, had a long bank of L. Canning running diagonally across their table. Sam'l Feast & Sons, who took second, had a circular table with a mound of Jos. H. White, surrounded by a broad band of dark green ribbon, in the folds of which nestled tiny electric lights supplied from a storage battery concealed beneath the table; Mr. Seidewitz used a mound of Ivory on his table; all used long and short stem chrysanthemums alternately at the plates. A feature of this lot of entries, as well as the mantels, which were decorated by the same firms, was the placing of cards, after the awards, advertising the people who supplied the china, linen, etc. It was commented on quite freely by visitors as detracting from what otherwise was

the most elaborate and interesting feature of the whole show.

The mantel decorations were more varied in character, one that was awarded first prize, by Sam'l Feast & Sons, was done with a bunch of Jos. H. White and Grace Hill on the lower shelf, flanked by a heavy bank of Adiantum cuneatum, a bank of Pteris serrulata on the upper shelf, and a group of Cullingfordii "mums" in the grate completed a very effective arrangement. If any fault could be found with it, there was a trifle too much green on the shelves, but it was a beautiful piece of work. The second prize winner was by Halliday Bros. and was white and green exclusively, Minnie Wanamaker "mums" and adiantum being used freely; this and the first were banked on each side with tall Areca lutescens, Halliday Bros.' tallest being fully twelve feet high. The mantel that took third, by Mr. E. A. Seidewitz, was very lightly trimmed, a kentia and small group of plants on the left side, loose cluster of eight Kioto "mums" on same side of lower shelf, small bunch of different varieties and croton leaves on same side of fireplace, with adiantum on upper shelf and in grate, was all.

The cut flower work all through the show indicated an advance over last year in taste and skill. The funeral designs, entered the second day, which were staged just beyond the table decorations, were from nine firms and were from first to last good. In the whole nine there was not one badly executed or designed piece. Fortunately the judges were three leading artists in the city and could not be suspected of any shadow of partiality, nor of having to contend with established ideas as to arranging funeral designs. Their awards were made solely on the artistic merits of the designs and were as follows: First to Mr. E. A. Seidewitz for a pair of palm leaves bent into a wreath and with a bouquet of Perle buds and Eucharis Amazonica fastened at the intersection of the leaves with white ribbon; second to Brackenridge & Co. for a reclining cross of Ivory "mums" with clusters of the same lightly arranged with adiantum at center and base; third, Mr. F. G. Burger, a large wreath very loosely and gracefully made of Minnie Wanamaker "mums," with a cluster of La France buds and two very small palm leaves at the heaviest part. The competition in original designs of chrysanthemums was equally close and interesting. The piece that took first in this class was an intricate arrangement of white chrysanthemums supported by cycas leaves. Though of acknowledged beauty and originality some of the competitors objected to it on account of the palms. It was sent by Brackenridge & Co. The second was a picture of six perfect Madeira "mums" tied in a spray with broad yellow ribbon and framed with a white frame of closely set chrysanthemums, sent by Mr. F. J. Burger. Third was a similar piece except that the frame was dark red, made by Mr. E. A. Seidewitz.

Next to the table containing funeral work was the bride's bouquets, in which first was taken by Mr. Burger with a cluster of Bride buds and Asparagus plumosus; the other two prizes were won by Bride buds and adiantum fronds. The corsage bouquets were of almost as many different materials as there were entries. First was taken by Mr. F. G. Burger with a cluster of La France buds.

Just behind the tables was an elaborate grotto of artificial rockwork twenty feet wide decorated with tree ferns and orchids, by Brackenridge & Co., who took first prize for the orchids. Next beyond were the carnation entries. First for best six was won by Messrs. Cook Bros. with Silver Spray, Buttercup, Nellie Lewis, Mrs. Fisher, Grace Wilder and a deep pink seedling. The same gentlemen won first for seedling with a fine plant of the same seedling, a slightly deeper tint than Fred Creighton. The collection of geraniums in bloom sent by Wm. Lehr, which came next in order, were surprisingly well grown and bloomed. Then the begonias, among which were a monster B. manicata aurea and a fine B. Smaragdina; then the entries in the children's department, where were to be seen four specimens of chrysanthemums better grown than many on the main floor. Next along the front of the balcony, under which the booths and stalls for selling were situated, came more tables of cut flower work, baskets, first in which the chief prize was taken by Mr. Burger's, filled on one side with Kioto, on the other with Jos. H. White, a spray of the latter running up on the handle, and a bow of yellow ribbon to match the Kioto on the other. The baskets of the other two prize winners, W. J. Halliday and Brackenridge & Co., were very tasteful, as indeed were all the rest.

The dinner table design and wedding design first premiums were awarded to typical pieces, a plateau of Niveus and H. E. Widener "chrysanths" being one, and a horseshoe of pink roses and white "mums" being the other.

The entries in cut flowers and sprays, which came next, must have caused our judges for the first day, Messrs. Kift, Colflesh and Smith from Philadelphia, no little study, as they were all very good to extra. The first prize for 25 sprays in 25 varieties was taken by Messrs. Fisher & Ekas with Robt. Flowerday, Violet Rose, Mrs. J. G. Whilldin, H. F. Spaulding, Minnie Wanamaker, Jno. Dwyer, L. Canning, Good Gracious, Advance, Rohallion, Tuxedo, Mrs. Wm. K. Bowen, Sec'y Gen. Cassagnac, Jessica, Golden Wedding, Mrs. J. N. Gerard, Geo. W. Childs, Ivory, Hicks Arnold, Jos. H. White, Golden Gate, Cullingfordii, Mrs. A. J. Drexel, a large pink seedling of their own raising, and Mme. Maria Hoste.

The 25 single blooms were staged next and contained as perfect flowers as have ever been shown here. They were from Messrs. Theo. Eckardt & Co. and contained Autumn Glow, a flower as perfectly incurved as Kioto but having a copper tint; Irma, a strongly incurved, delicate pink; Warrior, an incurved red with very peculiar boat shaped petals; Bryden, Jr., an incurved yellow like Kioto, but of longer and looser petals at the base of the flower; Col. Wm. B. Smith, a match for Harry Balsley in shape and size of petal but of clear yellow.

In the lot that took first for 12 blooms, by Mr. E. A. Seidewitz, was Ermenilda, also like Balsley in form but as deep in tint as a La France rose; American Flag, a huge flower, slightly incurved, blush white, with hair lines of crimson all over the petals; and, most interesting of all, a perfectly symmetrical bloom of the lop-sided novelty Good Gracious.

The first premium for vase of 12 white was taken by Sam'l Feast & Sons with Jos. H. White and Minnie Wanamaker. For the best vase of 12 yellow, by Mr. C. Hess, with Golden Wedding and Wm. H. Lincoln; best pink, Viviand-Morel and Roslyn, by Mr. E. A. Seidewitz; best bronze by Theo. Eckardt & Co. with Hicks Arnold and Harry May. Mr. Seidewitz took first for vase of 25 any color with Viviand-Morel and Roslyn. Sam'l Feast & Sons were awarded the gold medal for the best vase of Mrs. Frank Thompson, fine specimens every one of them.

In the contest for best display of cut roses Mr. Jno. Cook took first. In the lot was a new rose unnamed, like a very pale Mermet with a tint of yellow at the base of the petals. Best vase of pink was taken by S. Feast & Sons with Duchess of Albany. First for yellow and same for white were taken by Mr. J. L. Wagner with Perles and Brides respectively, the latter the best in the building.

It is impossible to more than glance over the exhibits, there were so many entries and of such uniform excellence that other comparison than that of the judges would be hard to make, and harder still to prove. Even in violets the quality was far better than was expected for the season, and between the numerous entries it was hard to decide, but first was awarded to Mr. P. C. Erdman. On the table devoted to carnations was the vase of La France roses sent by Sam'l Feast & Sons that deservedly took the Desch silver pitcher offered for that entry; also a vase of Barbara, a new rose sent by Mr. Wm. McNab, a sport from Niphetos with the slender stem but neither the color nor the shape of that rose, being a fawn pink in color and globular in shape. Behind this table, fastened by pins to sheeting stretched upon the wall were the two hundred and fifty sheets of beautifully mounted native flowers and ferns composing the entries for the Wm. McRoberts special premium, which was awarded to Mr. C. E. Waters for a very carefully mounted and described collection of flowers and ferns.

A glance over the entries in the carnation class showed some very fine flowers, notably a vase of perfect Edna Craig in the collection that took first for best display, sent by H. Weber & Sons, Oakland, Md. Mr. Peter Herb, Mt. Healthy, O., sent a vase of new seedling Adelaide Kresken, which was almost too far gone when received to show its quality. Mr. Edw. Swayne, Kennett Square, Pa., also sent two vases of new varieties Ophelia, a deep pink, and Sweet Brier, almost identical in color and form with Edna Craig, but perhaps a shade darker and very heavily clove scented. Here also was the exhibit of Mr. J. N. May, of Summit, N. J., comprising a vase of Wm. Simpson chrysanthemums, huge incurved blooms on stems three feet long, delicate pink slightly tinted with purple in color, and a great keeper, being about as fresh at the end as the beginning of the show. With these, from the same grower, was carnation Helen Keller, very large with a border around each petal of short hair lines of scarlet; and rose Mrs. W. C. Whitney, most luxuriant in foliage and deep pink in color.

Among chrysanthemum plants the 6-inch pot class was decidedly superior to all the rest, and about the showiest lot was one that took first for six bush plants, from Messrs. Fisher & Ekas, containing Mrs. J. G. Whilldin, C. B. Whitnall, Mrs. Robt. Craig, Geo. W. Childs, Mrs. Jno. Gardner and Viviand-Morel, the last being a perfect plant bearing seven immense flowers. The same firm took first with a fine Geo. W. Childs bearing twelve fine flowers. Mr. H. Walther took first for twelve specimens in the same class with plants of uniform excellence. The whole class was the most attractive plant display in the building, and the single stem section was equally good, both the lot that took first for twelve and that for six being extra well grown

and flowered. The honors of attracting crowds were about equally divided between these and the tall standards exhibited by Mr. Welch, which were fine, as were the six-foot single stem plants shown by Mr. Chas. M. Wagner.

First premiums awarded in addition to those named above were as follows:

CHRYSANTHEMUM PLANTS: To H. J. Quick for 6 specimens, 6 varieties and single specimen. To C. Hess for 12 specimens 12 varieties and 6 pink. To Ekas & Fisher for 6 standards, Maryland grown seedling of 1893, 6 specimens 6 varieties, single specimen and 6 single stem and flower. To P. P. Welsh for specimen standard, specimen fan shaped pyramid and 12 single stem and flower. To C. M. Wagner for 12 specimens 12 varieties, 6 varieties for amateurs, specimen standard and 12 single stem and flower. To W. Fraser for 75 specimens 25 varieties. To W. P. Bender for 6 varieties single stem and flower. To Geo. Eisinger for 6 varieties for amateurs and 6 varieties single stem and flower. To Mrs. J. S. Johnson for any plant showing careful cultivation.

CUT CHRYSANTHEMUMS: To E. A. Seidewitz for 25 sprays, 12 blooms, vase of pink, vase of 25 blooms. To Theo. Eckardt & Co. for 25 blooms and vase of 12 bronze. To C. Hess for largest bloom and vase of 12 yellow. To S. Feast & Sons for vase of 12 white.

ROSES: To John Cook for best display and 12 yellow. To S. Feast & Sons for 12 pink. To C. M. Wagner for 12 white. To Eckardt & Co. for 12 red and Am. Beauty. In violets P. C. Erdman for 200 blooms.

CARNATIONS: To H. Weaver & Son for best display. To W. Lehr for vase of 25 white and vase of crimson. To P. C. Erdman for vase of red. To Cook Bros. for vase of yellow and vase of striped. To Halliday Bros. for vase of pink. To John Cook for display of cut flowers other than chrysanths. To E. A. Seidewitz for jardiniere.

MISCELLANEOUS PLANTS: To Brackenridge & Co. for orchids. To Cook Bros. for 6 carnations and specimen carnation. To H. Bauer for 6 foliage begonias. To Ekas & Fisher for 6 coleus. To John Cook for specimen palm, group of decorative plants and 6 ferns other than adiantums. To E. A. Seidewitz for 6 adiantums. To W. Lehr for geraniums. To H. Bauer for cacti. MACK.

St. Louis.

The third annual chrysanthemum show of the St. Louis Florists' Club was held from the 7th to the 10th in Grand Music Hall of the Exposition Building, and from all accounts at present it may be considered a success. The remarkably bright, warm weather that prevailed the week preceding and during the show rushed plants and cutflowers along so that the display surprised even those who had kept a close watch upon the chances.

The exhibits were tastefully arranged, palms and foliage plants being interspersed among the chrysanthemums, giving the whole a graceful appearance which it would be impossible to produce with chrysanthemums alone. The sales-booth was placed in the forward part of the hall and was decorated with plants of laurel, both standards and pyramids. A special effort was made to have the booth both prominent and attractive, as an arrangement had been made whereby 50% of all sales went to the club. Back of the booth and in the center of the hall was placed a raised dais for the musicians; this was banked upon the back and sides with palms and standard chrysanthemums. The music consisted of a vocal quartette and a mandolin club, which alternated during the evening.

The sides of the lower end of the hall were banked with foliage plants, ferns, begonias, crotons, carnations in pots and single stem chrysanthemums, arranged upon tables and steps. The class calling for flowering plants for house culture was also placed here and proved to be a great attraction, as almost every lady visitor was interested to a greater or less degree. In the rear of the hall was also placed groups of cannas and specimen plants which could be readily shifted when the space was needed for cut flower tables. Around the sides of the forward part of the hall were placed chrysanthemum plants entered in the classes calling for 12, 6 and 4 plants, also those grown for market sales; here also were placed tables for cut roses, cut carnations and the dinner table decorations; these were not brought in on the first day, but gradually, as they were needed, room was made and they were placed so that while the hall always appeared to be full something new was added every day, thus keeping the interest alive.

On Tuesday, the opening day, there was shown a table of chrysanthemums, "not for competition," from "Vesey's Greenhouses," and exhibited by C. W. Wors, which attracted much attention, owing to good quality, the best being W. R. Smith and Viviand-Morel in pink, Hicks Arnold in yellow, W. G. Newett, Niveus and Wanamaker in white. There was also shown a vase of Adelaide Kresken carnations from Peter Herb of Mt. Healthy, Ohio, the originator, which attracted many by their size and color. On the first day also were shown cut roses which proved their popularity by the surrounding crowds, despite the tempting array of chrysanthemums.

Wednesday a special feature was made of cut chrysanthemums and handle and oval baskets. The cut chrysanthemums were fine and the judges had hard work to pick the winners. In the class calling for best vase of chrysanthemums the following were seen in fine shape in the winning bench: Sunflower and W. B. Smith for yellow; Wanamaker for white, Waban, Excellent and La Perle de Sales for pink, and John Thorpe for red. The prize offered for best 12 flowers, any variety, was captured by Viviand-Morel, exhibited by Wm. Schray; Minnie Wanamaker, exhibited by the C. Young & Sons Co., being a close second. The best flowers noted in the other classes were Ivory, Mrs. E. D. Adams, J. H. White, The Queen and Rob't Bottomley. The winning handle basket was a combination of La France roses, hyacinths and valley, with a center of orchids, all worked in a bed of adiantum; orchids and adiantum were also worked on the handle. This was exhibited by Ostertag Bros. The oval basket capturing first was entered by the C. Young & Sons Co. and consisted of Albany and Meteor roses on opposite sides with valley scattered among them; the center was bunch of orchids; the roses were used with long stems and stood gracefully above a bed of adiantums.

The special features on Thursday were cut roses and table decoration of any flower, tables 6 by 10 feet. The table taking first prize was entered by Ostertag Bros. It consisted of a low arrangement of Mermet buds and valley in a bed of adiantum; the center consisted of a bowl of orchids; small lamps with pink shades were used, the favors being orchids for the ladies and valley for the gentlemen; small Cocos Weddeliana worked into the design gave it a very graceful finish. The second table was entered by C. Young & Sons Co.; it consisted of a tall vase of long stemmed Beauty roses in the center placed upon a mirror, the edges of the mirror being banked with adiantum fronds and orchids; pink shades were used on the lamps, which were worked towards the four corners. La France roses were strewed around the lamps and towards the center piece. The favors consisted of Beauties and valley.

The special features for the closing day were special prizes for roses and carnations, and round table to be decorated with chrysanthemums. In these classes competition was close. The carnation special could not be decided until several additional judges had been called in. It finally went, however, to Thos. Carroll, who showed 19 varieties in excellent condition.

The chrysanthemum tables were very prettily arranged, first going to the C. Young & Sons Co., whose table consisted of a vase of white varieties in the center surrounded by crescents of yellow; outside there were placed bunches of white; yellow shades were used; small Pandanus Veitchii, nicely marked, set among the chrysanthemums, added materially to the effect. The second table was by Ostertag Bros. and consisted of a vase of yellow varieties in the center of the table placed on a mirror; small cocos leaves were used in this bunch in addition to the adiantum and were very appropriate. The mirror was banked with adiantum, which held white and yellow chrysanthemums alternately; the same arrangement was carried out towards the sides of the table; small cocos were scattered over the table and yellow shades were used on the lamps.

Taking the show as a whole, it was the best we ever held; the cut flowers and designs were ahead of anything ever seen here in regard to quality, while the plants were not quite up to the standard set by last year's show. Following are the awards in detail:

CHRYSANTHEMUM PLANTS: 12 plants, 12 sorts—1st, John Armsby; 2d, A. Meyer; 3d, Steidle Floral Co. 6 plants, 6 sorts—John Armsby, Wm. Schray, A. Meyer; 4 plants, white, 4 sorts—Wm. Schray, Steidle Floral Co., F. J. Fillmore; 4 plants, pink, 4 sorts, A. Meyer—F. J. Fillmore; 4 plants, any color, 4 sorts—Wm. Schray, F. J. Fillmore; single specimen white—Wm. Schray, A. Meyer, Jordan Floral Co.; single specimen yellow—A. Meyer, Jordan Floral Co., Steidle Floral Co.; single specimen plant pink—Wm. Schray, A. Meyer, Jordan Floral Co.; single specimen, any color—Wm. Schray, A. Meyer, Jordan Floral Co.; 12 plants, 6 sorts, 9-inch pots, not over 2½ feet high—Jordan Floral Co.; best and largest collection named chrysanthemum plants —Wm. Schray.

CHRYSANTHEMUMS — STANDARDS: 3 plants, pink—Wm. Schray; 6 plants, any color—Wm. Schray, Julius Koenig, A. Meyer; single specimen white—A. Meyer, Wm. Schray, John Armsby; single specimen yellow—John Armsby, A. Meyer, Wm. Schray; single specimen pink—A. Meyer, Wm. Schray, Julius Koenig; single specimen, any color—A. Meyer, John Armsby, Julius Koenig.

PLANTS GROWN FOR MARKET SALES: 4 plants, white, 4 sorts—A. Meyer, C. Young & Sons Co., Wm. Schray; 4 plants, yellow, 4 sorts—A. Meyer; 4 plants, pink, 4 sorts—A. Meyer, Wm. Schray, F. J. Fill-

more; 4 plants, any color, 4 sorts—Wm. Schray, A. Meyer, F. J. Fillmore.

PLANTS GROWN TO ONE FLOWER, 4½-INCH POTS: 12 plants, white, 4 sorts—Wm. Schray, A. Meyer, F. J. Fillmore; 12 plants, yellow, 4 sorts—A. Meyer, Michel Plant and Bulb Co.; 12 plants, pink, 4 sorts—A. Meyer, Michel Plant and Bulb Co.; 12 plants, any color, 4 sorts—A. Meyer, Wm. Schray, F. J. Fillmore.

CARNATIONS: 24 plants in bloom, 6 of a kind—F. J. Fillmore, Thos. Carroll, Wm. Schray.

CUT CHRYSANTHEMUMS: 45 flowers, 15 sorts, 3 of each—Michel Plant and Bulb Co.; C. Young & Sons Co.; Jordan Floral Co.; 20 flowers, white, 4 sorts—Wm. Schray, Michel Plant and Bulb Co., C. Young & Sons Co.; 20 flowers, yellow, 4 sorts—Michel Plant and Bulb Co., C. Young & Sons Co., Wm. Schray; 20 flowers, pink, 4 sorts—C. Young & Sons Co., Wm. Schray, Michel Plant and Bulb Co.; vase cut chrysanthemums—Wm. Schray, Michel Plant and Bulb Co., C. Young & Sons Co.—12 flowers any one kind, Wm. Schray, C. Young & Sons, E. W. Guy.

CUT ROSES: C. Young & Sons Co. were first on Perles, Meteors, Watteviles, Albany, La France, Wootton, Augustine Guinoisseau, Hoste, Gontier and 5 varieties, 10 of a kind, Beauties and Belles excluded. R. F. Tesson on Bridesmaid, Bride, Mermet, Cusin and 5 varieties, 20 of a kind. Wm. Schray on American Beauty and 20 blooms of varieties not named in schedule, showing Kaiserin Augusta Victoria.

CUT CARNATIONS: Thos. E. Carroll took first on vase of white, vase of red and largest and best collection, 10 flowers of each kind. Peter Herb was first for vase of pink. C. Young & Sons Co. for vase of variegated.

BASKET AND TABLE DECORATIONS: Handle basket—Ostertag Bros., J. M. Jordan, C. Young & Sons Co.; flat oval basket—C. Young & Sons Co., Ostertag Bros., Jordan Floral Co.; table decoration, any flowers—Ostertag Bros., C. Young & Sons Co., Jordan Floral Co.; table decoration, chrysanthemums—C. Young & Sons Co., Ostertag Bros., Michel Plant & Bulb Co.

SHAW PREMIUMS: Best and most tastefully arranged group of chrysanthemums on not over 100 square feet—A. Meyer, Michel Plant and Bulb Co., Jordan Floral Co.; seedling chrysanthemum—F. Dorner & Son, gold medal; collection of palms—Wm. Schray, Jordan Floral Co., Michel Plant and Bulb Co.; collection of begonias—Michel Plant and Bulb Co., Wm. Schray, F. J. Fillmore; collection of ferns—Julius Koenig, Michel Plant and Bulb Co., F. J. Fillmore; collection of crotons—John Armsby, Michel Plant and Bulb Co., F. J. Fillmore; collection of foliage plants—Wm. Schray, Michel Plant and Bulb Co., F. J. Fillmore; collection of cannas in flower—Michel Plant and Bulb Co., Wm. Schray; 25 blooming plants for house culture, excluding cannas and chrysanthemums—Michel Plant and Bulb Co., Wm. Schray, F. J. Fillmore; collection decorative aloes—honorable mention, Missouri Botanical Gardens; collection nepenthes or pitcher plants—honorable mention, Mr. D. S. Brown.

SPECIMEN DECORATIVE PLANTS: Specimen Areca lutescens—Jordan Floral Co., A. Waldbart; specimen for table center piece—Julius Koenig; specimen Howea Belmoreana—John Armsby, A. Waldbart; specimen Howea Forsteriana—John Armsby, Michel Plant and Bulb Co.; specimen Livistona chinensis—Jordan Floral Co., Wm. Schray; specimen Pandanus utilis—Jordan Floral Co., A. Waldbart; specimen Pandanus Veitchii—Wm. Schray, Michel Plant & Bulb Co.; specimen fern—A. Waldbart, Jordan Floral Co.; specimen decorative plant other than above—Wm. Schray, A. Waldbart. R. F. T.

Newport, R. I.

The Newport Horticultural Society held its fourth annual chrysanthemum show on Nov. 6 to 8. The weather was most favorable throughout, and should have warranted a better attendance than that received. It is simply discouraging in view of the fact that the society gives to this community first class exhibitions and the public fail to give patronage enough to make an exhibition pay expenses. The show this year excelled its predecessors by being more extensive, with a larger variety of plants, larger blooms, and better grown plants, in fact the plants and blooms were equally as good as those that were shown in larger cities where competition is much greater.

The groups of mums and foliage plants this year were arranged against the walls; through the centre of hall the various specimen plants were placed; this arrangement gave to a person on entering the hall a good view of the exhibition, and the effect was very pretty. The hall space was confined to the plant classes; in an adjoining room the cut blooms were exhibited. The ceiling of hall was tastefully decorated with flags, lanterns and bunting. This is the first time the society has tried overhead decoration, and it certainly added much to the appearance of the hall.

In the class for best six plants in 12-inch pots, the competitors were Messrs. Alexander McLellan, gardener to John W. Ellis, Esq., and Thomas Beattie, gardener to Joseph Tuckerman, Esq. The plants were remarkably well grown. First went to Mr. McLellan; Mr. Beattie receiving second. Mr. McLellan's six plants consisted of Yeddo, Pres. Harrison, Louis Boehmer, John Firth, Nineveh and Roger Williams.

In the class for 9 plants in pots not exceeding 8 inches there was only one entry, and first went to Andrew Ramsey, gardener to Mr. Ed. King. In this eight was shown some well grown plants of R. Bottomley, Golden Dragon, E. G. Hill and Louis Boehmer.

For 30 plants in 6-inch pots T. Beattie took first with plants that were much admired, being exceptionally well grown. They were as follows: L. B. Bird, Marvel, Lizzie Cartledge, R. Bottomley, Cullingfordii, Harry May, Stanstead White, Mrs. F. Thompson, W. H. Lincoln, Gloriosum, Mrs. Geo. Hill, L. Canning, Newport, Mrs. Jno. Eyerman, Mrs. E. D. Adams, Mrs. A. G. Ramsey, Joseph Taylor, Elaine, Geo. Bullock, T. C. Price, Mrs. Dr. Mandeville, Hon. J. W. Welsh, Bobby Burns, Kioto, Puritan, Comet, Mrs. Mercer, Domination, Dawn and G. F. Moseman.

For best specimen white, first went to A. Ramsey, the winning plant being a fine specimen of R. Bottomley. T. Beattie took second with Domination. Specimen yellow, Mr. Beattie first, with Dr. H. A. Mandeville; A. McLellan second, with Yeddo. Best specimen any color excepting white or yellow, first A. Ramsey, who showed a fine specimen of L. Boehmer; F. S. Follwell, gardener to L. L. Lorillard, Esq., second, with a plant of A. G. Ramsey. Specimen anemone, A. Ramsey first, with a seedling originating with him named Bobby Burns; second, T. Beattie. Six standards, stems not less than 24 inches. Of these it can be truthfully said that the standards shown by F. S. Follwell, who took first, were one of the principal features of this exhibition. R. Gardner, gardener to Cor. Vanderbilt, Esq., competed against Mr. Follwell in this class. Mr. Follwell's plants were Harry May, Jardin des Plantes, Mrs. W. S. Kimball, Mrs. E. D. Adams, Yeddo and Gloriosum. Specimen standard, stem not less than 30 inches, T. Beattie first with a splendid plant of Col. H. W. Bois. Mr. Follwell second with a fine specimen of Mrs. E. D. Adams.

The society's silver medal for the best seedling never before exhibited was won by Alexander McLellan with a seedling named Roger Williams. It appears to be an improvement on A. G. Ramsey, to which it has a great resemblance.

For group of foliage plants and mums to cover 144 sq. ft. arranged for effect, mums to predominate, first to R. Gardner; F. S. Follwell, second. These groups were made up of mums, arecas, maiden hair ferns and various kinds of foliage plants, and the effect was excellent. The mums shown in Mr. Gardner's group were very nearly all seedlings of his own raising.

For best group of mums and foliage plants to cover 72 sq. ft., mums to predominate, first to A. Ramsey; second, R. Gardner. Both those groups were arranged very prettily.

For cut flowers, 25 distinct named varieties, T. Beattie took first with Good Gracious, Mrs. Mandeville, R. Bottomley, Marvel, Violet Rose, Ivory, W. H. Lincoln, Mrs. D. D. L. Farson, Domination, Excellent, Comet, Dr. Mandeville, L. Cartledge, A. G. Ramsey, Ada Spaulding, Mrs. Eyerman, Geo. Savage, Frank Thompson, G. F. Moseman, Stanstead White, Cullingfordii, Mrs. E. D. Adams, L. B. Bird, Mrs. F. Thompson, Harry May. The three last named varieties were unusually large blooms. F. S. Follwell second; amongst his lot were some very fine blooms of Mrs. Denne, Harry May, Ada McVicker, Domination and Mrs. Trelease. Amongst the blooms shown by A. McLellan, who took third, were noticeable large blooms of Viviand-Morel, Stone Acre, Gem, the latter variety an anemone which originated with Mr. McLellan and is worthy of special mention. Best 12 blooms, F. S. Follwell first, with Mrs. F. L. Ames, Mrs. Bayard Cutting, Ada McVicker, Kioto, W. W. Coles, Miss M. Wanamaker, Mrs. Wm. Trelease, Geo. Savage, Mrs. Denne, Harry May, Gertie, Domination, the three last named kind being shown in splendid form. A. McLellan second; amongst his twelve being a very fine bloom of Golden Wedding measuring 8 inches in diameter, and San Salvador, introduced last year by Mr. McLellan, and with which he took the society's silver medal. At times its color is white, large, full and globular shaped, he claims for it to be excellent for cut blooms and not good as specimens. Vase of 12 blooms any variety, first to F. S. Follwell for 12 Gertie. Mr. Gardner took second with a seedling raised by him named Countess de Sers, color pink, incurved, of good quality. Vase of 6 blooms, Mr. Ramsey first, with 6 Mrs. Gair; second, Mr. Gardner, for 6 The Gladys.

Centerpiece of mums for dinner table decoration, A. Ramsey first, his piece being made of Golden Dragon and asparagus vine; second to A. Meikle, gardener to W. S. Wells, Esq., his basket consisting of Charity, Annie Manda and Farleyense ferns; third to A. McLellan.

For amateurs: Six plants, best group, not less than 9 plants, first Geo. Douglas, Geo. Taylor first for 12 cut blooms. Both plants and blooms were well grown.

A. Ramsey was first on 2 bunches of grapes.

First class certificates of merit were awarded to the Newport Nursery Co. for collection of begonias; to Edward Swayne, of Kennett Sq., Pa., for carnations, Ophelia and Sweet Brier; to Thomas Beattie for a collection of gourds; to Geo. Weaver for collection of seeds, bulbs, pots, grasses, etc. Pitcher and Manda were awarded 2 silver medals, one for a collection of anemones, the other for Japanese kinds, and one named Mrs. Geo. M. Pullman.

The judges on plants and flowers were Messrs. Jno. Kearns, William Dexter and James McLeish; on centerpieces, Miss Mary Powell, Miss Anna Hunter; on fruits, Messrs. R. Gardner, John Allan and Ludlow Mahan. The judges to a great extent gave general satisfaction.

JNO. J. BUTLER, Sec'y.

Montreal.

The fifth annual chrysanthemum show of the Gardeners' and Florists' Club of Montreal opened most successfully in the Fraser Hall on November 8. Never in the history of the club has so choice or extensive an exhibit been brought together. Although not so many groups of chrysanthemums are put up as formerly yet their place is more than supplied by the superb exhibits of cut bloom and other entries. Roses and carnations although not extensively exhibited were still a most magnificent lot.

There were five entries for the Challenge cup, section for 24 blooms, and five each for 12, six and three bloom, and also five large vases of chrysanthemums. Messrs. Pitcher & Manda also staged about fifty specimen blooms, so that we may safely place the number of specimen blooms at 500, and all of the first quality.

The following were the winners of the Challenge cup: Sunflower, L. B. Bird, Geo. Savage, J. N. Gerard, Francis Tarbox, E. G. Hill, Florence Percy, Col. H. M. Boies, T. C. Price, Domination, Volunteer, Mrs. E. D. Adams, Count de Germiny, Ed. Audiguier, G. W. Childs, Dr. H. A. Mandeville, Ada Spaulding, Mary Wheeler, F. L. Ames, A. J. Drexel, Harry May, Mrs. Libbie Allen, E. Molyneux, Violet Rose. Other collection contained amongst those above mentioned Wm. H. Kimball, Harvest Moon, H. E. Widener, Advance, Ruth Cleveland, Wm. Singerley, M. P. Mills, Excellent, Snowball, Grace Hill, G. F. Moseman, Kioto, W. H. Lincoln.

The winners of the Challenge cup for twelve specimen plants were: Duchess of Connaught, Florence Percy, Tokio, Gloriosum, Ada Spaulding, The Intended, Mme. Fabre, Sunflower, E. Molyneux, C. de Montibiere, Mons. Bernard. Other good plants were Viviand-Morel, Spiralis, G. W. Childs, W. H. Lincoln, La Triomphante, Mrs. E. D. Adams, Mrs. Hicks Arnold, Golden Rod, Ithaca, Count de Germiny, L. Canning and Source d' Or.

Especial mention must be made of the best 6 specimens, 3 specimens and 6 plants in 6-inch pots. Never were such plants placed in competition in this Dominion before. They were not extra large, but in every respect perfect. The best specimen was a grand plant of Mrs. E. D. Adams. John Perrin put up two grand groups of chrysanthemums.

In miscellaneous plants not much was done but we had a grand specimen of Cyp. insigne with 50 expanded flowers, also a grand piece of Vanda Sanderiana.

Two good groups of foliage and chrysanthemum plants on 50 feet were staged, also two groups on 25 feet.

In a group of stove and greenhouse plants were some fine plants of Lilium auratum and lancifolium rubrum.

C. Campbell had a mantel decoration of great merit. At the corners were two handsome specimens of English bay, surrounded by araucarias, palms, ficus, ardisias, etc., the front of the grate being filled with cut flowers, and the mirror draped with Asparagus plumosus and crowned with light graceful palms. On the mantel at the other side were placed vases of roses and carnations. Mr. Campbell had also a good table decoration. The centre piece was of Cocos Weddelliana surrounded by an oval of pink roses, and specimen glasses of lily of the valley and violets with favors of pink and white roses and lily of the valley.

The vases of chrysanthemums staged as decorations were grand, especially the one by Wilshire Bros., who had a vase that in perfect harmony with its surroundings and independent of the flowers was an exhibit in itself.

In made up work, for basket, a neat arrangement in a square basket of Mermet and Bride roses, lily of the valley and maidenhair fern, handle tied with a soft pink ribbon, by Wilshire Bros., was first. A Dolly Varden basket of white chrysanthemums, Mermet roses and smilax, by Jas. White, was second, closely followed by C. Campbell with a well arranged basket of oval shape.

In funeral designs, a pillow in white roses, carnations, valley and tuberoses was first; a neat arranged star, second; and a combination design (Faith, Hope and Charity), third.

The epergnes of flowers: First arrangement of pink roses and carnations, with heather and maidenhair; second, Mermet roses and maidenhair.

The cut chrysanthemum exhibit of Messrs. Pitcher & Manda was awarded a special first prize and the following four were awarded certificates of merit: Pitcher & Manda, large Japanese, reflexed, deep yellow center, shading to pure white edge, very fine, certainly one of the best and most novel introductions of late years; Mrs. G. West, deep maroon, incurved; Miss F. H. Kingsley, pink incurved, very fine flower; Seedling 321, large globular incurved, creamy white. Other good blooms were G. A. Pullman, Robt. Gray, Mrs. F. L. Ames, The Queen, Minnie Wanamaker, Annie Woods, Fascination, Miss Meredith and Seedling 401. The same firm have a choice collection of new and rare plants on exhibition, the principal features of which were Dieffenbachia marmorea Corsi, Araucarias excelsa compacta and excelsa glauca, Helliconia aurea striata, Anthuriums Veitchi and Waroqueanum, Phrynium variegatum, Livistona rotundifolia, Phœnicophium Seychellarum, Acanthophœnix crinata, Guilielma speciosa, Adiantums Farleyense, cuneatum variegatum, capillus-veneris grandis, festum, and Selaginella Pitcheriana. The whole exhibit of this firm was of the highest order and was well staged by their able representative, H. A. Bunyard, who is always welcome in Montreal.

The club made a special rate for school children on the second day of the exhibition, and the hall was crowded with them all the afternoon. The attendance has been very good so far.

The hall was well decorated this year; with flags, bunting and wreathing and a judicious use of Chinese lanterns, the decorating committee have achieved a marvellous success.

The exhibition was a grand success and it is the more to be proud of as two or three of our usual leading exhibitors are not competing, as their chrysanthemums are very late this year, in fact a fortnight later would have suited the majority of the growers around here as they would not have needed to use so much heat to open up the blooms.

Following are the principal awards of premiums: Group chrysanthemums and foliage plants on 50 feet of space, 1st, J. Holliday; 2nd; J. Bennett; group of chrysanthemums and foliage plants on 25 feet space, 1st, Walter Wilshire; 2nd, P. McKenna & Son; group of chrysanthemums only on 50 foot space, 1st, John Perrin; group of chrysanthemums on 25 foot space, 1st, John Perrin; group of foliage and flowering plants on 36 foot space, 1st, Colin Campbell; 12 chrysanthemum plants (cup section), 1st, G. Copeland; 2nd, J. Bland; 3rd, C. Smith; 6 chrysanthemum plants, 1st, T. McHugh; 3 chrysanthemum plants, 1st, T. McHugh; 2nd, J. Bland; 3rd, C. Smith; 1 specimen, 1st, J. Bland; 3 Standards, 1st, J. Perrin; 2nd, J. Bland; 3rd, C. Smith; 1 Standard, 1st, C. Smith; equal 3rds, J. Bland and J. Perrin; 6 plants in 6-inch pots, 1st, T. McHugh; 12 plants in 5-inch pots, 1 bloom to each, 1st, J. Bland; 2nd, J. Perrin; 6 plants in 5-inch pots, 1 bloom to each, 2nd, J. Perrin, 3rd; J. Bland; 12 miscellaneous plants, 2nd, C. Smith; 3rd, B. T. Baud; specimen fern, 1st, F. Bennett; 6 ferns in 5-inch pots, 2nd, B. T. Baud; 3 palms, 1st, J. Bland; 1 specimen palm, 2nd, P. McKenna & Son; 6 table plants, 2nd, J. Holliday; 3rd, B. T. Baud; specimen orchid, 1st, F. Bennett; 2nd, J. Holliday; 24 blooms chrysanthemums (cup section), 1st, T. McHugh; 2nd, G. Copeland; 3rd, C. Campbell; special prizes to J. Walsh and J. Perrin; 12 blooms chrysanthemums, 1st, C. Campbell; 2nd, T. McHugh; 3rd. J. Perrin; 6 blooms chrysanthemums, 1st C. Campbell; 2nd, W. Wilshire; 3rd, T. McHugh; 3 blooms chrysanthemums, 1st, C. Campbell; 2nd, T. McHugh; 3rd, J. Holliday; special prize for largest bloom in show to G. Copeland for bloom of Mrs. E. D. Adams.

In cut roses C. Campbell took first for Mermet, Perle, Sunset, American Beauty and Meteor; W. Wilshire for Bride and Hoste.

In cut carnations C. Campbell was first on collection, also on dozen white, light pink and fancy; P. McKenna & Son were first on red and dark pink.

In floral arrangements C. Campbell won first for mantel decoration, table decoration, funeral design and epergne of flowers. W. Wilshire Bros. were first on basket of flowers and vase of chrysanthemums.

H. STOCKING, Sec'y.

Providence, R. I.

The chrysanthemum exhibition under the auspices of the R. I. Horticultural Society closed Friday night after a very successful season. The managers entered upon their work with many misgivings as to the outcome, owing to the excessively hard times, but to their surprise and joy the receipts were more than fifty per cent larger than last year.

The exhibition was well advertised and a change from last year in the location of the exhibition on to the principal street of the city and much personal effort by the managers were the chief causes leading to success.

The exhibition itself was a marvel of beauty, the lighter shades of coloring in the blooms giving it a more cheerful appearance than last season's exhibition.

In the center of the hall was a huge mound of plants in full bloom, while around it were groups arranged in a tasteful manner and other collections. The stage was decorated with palms and ferns, while along in front were arranged collections of chrysanthemums in pots.

The chief point of attraction as one entered the hall was the magnificent display of Farquhar Macrea of cut blooms, for which he received the three silver cups for the best 6 vases, 10 blooms of each, of all white varieties; 6 vases of 10 blooms each, of pink varieties; and 6 vases, 10 blooms each, for blooms in variety. The judges had no trouble in deciding to whom the silver cups, one to each collection, belonged, for the blooms were grand.

Following these on the same table were fifty bottles by Mr. Macrea, to whom was awarded first premium in this class. Farther along on same table was a fine collection of 50 bottles by Robert Johnston, who secured 2d premium. Pitcher & Manda exhibited a new variety named "Pitcher and Manda," and for which a certificate of merit was awarded. Richard Witterstaetter of Sedamsville, Ohio, was awarded a certificate of merit for seedling bloom variety named Marie Louise, and Robert Johnston of this city a like certificate for his new chrysanthemum, Pink Ivory.

Edward Swayne of Kennett Square, Pa., was awarded certificates for his carnations Ophelia and Sweetbrier.

A. A. Young, Jr., of Jewett City, Conn., a new competitor in the chrysanthemum world, exhibited cut blooms which were "highly recommended by the committee."

The usual fine displays from the greenhouses of the Messrs. Goddard and Mrs. T. P. Shepard attracted wide attention.

The principal exhibitors of chrysanthemums were F. A. Fairbrother, Robert Johnston, Charles Fulford, John G. Jenson, Farquhar Macrae, R. H. I. Goddard (Charles Potter, gardener), Mrs. T. P. Shepherd (Wm. Hill, gardener), Mrs. T. P. I. Goddard (Alfred Powell, gardener), M. B. I. Goddard (James Hay, gardener), of Providence; James Nisbet and Wm. H. Haskell, of Pawtucket; N. D. Pierce, Jr., of Norwood; Sam W. Lewis of Johnstown; and Leo Kennedy of Riverside.

Organ recitals were given each evening by Hamilton C. McDougal, a leading organist of this city.

C. W. SMITH, Sec'y.

Worcester, Mass.

The tenth annual chrysanthemum exhibition of the Worcester County Horticultural Society was held in their hall November 8 and 9, and was the most successful in the history of the society. Fair weather brought out a large attendance and made it comparatively easy to ship plants and flowers.

The public interest was centered on the large cut blooms and admiring crowds thronged around the tables morning, noon and night. The general arrangement of the cut flower tables and the staging of the plants was very pleasing and effective, and when viewed from the gallery the gorgeous masses of color, relieved here and there by a graceful areca or a stately kentia, made a picture that one would not forget for many a day.

H. F. A. Lange and Chas. D. Thayer had the most extensive exhibits. Mr. Lange confined himself to cut blooms, palms and ferns and only exhibited chrysanthemum plants in the class calling for best six, grown to single stem, for which he was awarded first premium. Mr. Chas. D. Thayer captured nearly all the plums in the plant classes and first for 24 sprays; his plants were large, well bloomed and of good varieties, but were utterly ruined as a thing of beauty by the vast number of unpainted stakes used in tying them up, although they did much to make the show a success with the general public.

Col. John E. Thayer and E. V. R. Thayer, of Lancaster, showed some immense blooms which were quite a feature of the show. These two exhibitors together with Lange and M. F. Brierly had a lively tilt for blue ribbons, with honors about even.

Col. Thayer was awarded first for best twelve blooms with Lange a close second; and also for best six with Brierly well up; for best vase of one variety Lange took first and E. V. R. Thayer second; and for mixed vase E. V. R. Thayer first and Lange second, and so on throughout the schedule.

The committee of arrangements hit on a good scheme for this exhibition in awarding gratuities for palms, ferns and ornamental plants, as it increased the interest in the show and the foliage of the palms was necessary to relieve and bring out the brilliant coloring of the "mums."

H. F. A. Lange, A. A. Hixon, Mrs. Thos. Ward, H. B. Watts and Mrs. H. M. Chase received honors in this class, Mr. Lange occupying the stage with a good display.

Among the largest exhibitors other than those already mentioned were: Fred A. Blake, Mrs. C. E. Brooks, State Lunatic Asylum and H. A. Jones.

Ed. Swayne showed two of his seedling carnations, Ophelia and Sweet Briar, and F. L. Chandler a seedling chrysanthemum he calls Sayonara, a lemon, tubular petaled variety of exceeding merit. Golden Wedding took the palm for largest bloom and is truly a wonderful variety.

SEEDLING.

Milwaukee, Wis.

The hall selected this season is considerable smaller than has been used before, but a much better looking one, requiring less material and labor to set it in order. Although a few good entries were diverted to Chicago after having been booked for this show, the hall was well filled, and was quite attractive in appearance. The cut blooms in roses, carnations and chrysanthemums were a credit to our city, but the arrangements with the exception of Wm. Weil's modest little basket of roses might better have been left out. There was some hesitation on the part of the judges in awarding prizes on "best display of carnations." Frank Dilger had the largest display and most varieties all very good quality; it was a beautiful lot; but Wm. Gregory had the best flowers; when examined individually they were a rare lot of carnations.

The strongest points in this show were H. Staep's roses, H. Von Oven's Am. Beauties, Currie Bros.' cut blooms of chrysanthemums, the carnations, the Mitchell palms. Currie's arrangement of single stem plants with other foliage was in striking contrast with others set on floor along the committee's chalk line, and the music helped very much. The attendance and weather were both good, and the club is to be congratulated upon their success.

In chrysanthemums plants H. Schwebke received firsts for 12 plants, one of a kind; 6 white, one or more varieties; 6 yellow and 6 pink. J. M. Dunlop was first for display of 20 plants, one of a kind, named. And Currie Bros. were at the head on 20, one of a kind, with one flower each.

In cut chrysanthemum blooms firsts were taken by Currie Bros. for 20 named varieties, one bloom of each; 12 ditto and 6 ditto.

For 50 decorative plants Ferd. Knorr was first, A. Klokner second.

In various cut flowers H. Staeps won on 5 best varieties of roses, one dozen of each; F. P. Dilger for best display of carnations; H. Von Oven for 6 American Beauties; Wm. Gregory for 100 violets.

In the special prizes F. Knorr won on display of begonias and other foliage plants arranged for effect, and best group of ferns arranged for effect: H. Schwebke for 10 chrysanthemum plants in 5 colors; H. Von Oven for best carnation; Currie Bros. for most artistic bouquet; Wm. Weil for basket of roses; A. Klokner for table decoration.

The following certificates of merit were also awarded by the judges: Currie Bros., group of miscellaneous plants; John Valom, display begonias and foliage plants; H. Von Oven, violet plants in pots; Archie Middlemass, group of chrysanthemums; Christ Valom, group of ferns; John Nelson, Oshkosh, best five varieties of roses and display of carnations; H. Von Oven, display of carnations; F. P. Dilger, best collection carnations; Currie Bros., 100 violets; Ferdinand Knorr, 100 violets; J. M. Dunlop, 5 varieties of roses.

C. B. W.

Toronto.

Trade, which had been pretty good for two or three weeks, has unaccountably fallen off and things have been very dull for the last few days. The weather still holds remarkably fine, which may have something to do with dull trade.

Certainly all the chrysanthemum shows which are being held this week can not account for lack of attendance from bad weather, and it is sincerely to be hoped that it may keep fine until the show is over here.

A meeting of the city florists was called by Mr. C. Tidy on Thursday evening last at his King street store, for the purpose of considering various matters connected with the trade. No definite conclusions were arrived at as far as I can learn and the meeting was adjourned to a later date.

Mr. Tidy has opened another cut flower and plant store in the Yonge St. Arcade, a first rate stand.

The plants have arrived home from the World's Fair looking very tired, though considering that they have been on exhibition for seven months and that the conditions were not the most favorable, they look as well as might be expected. Latanias stood the racket best of all and actually flourished.

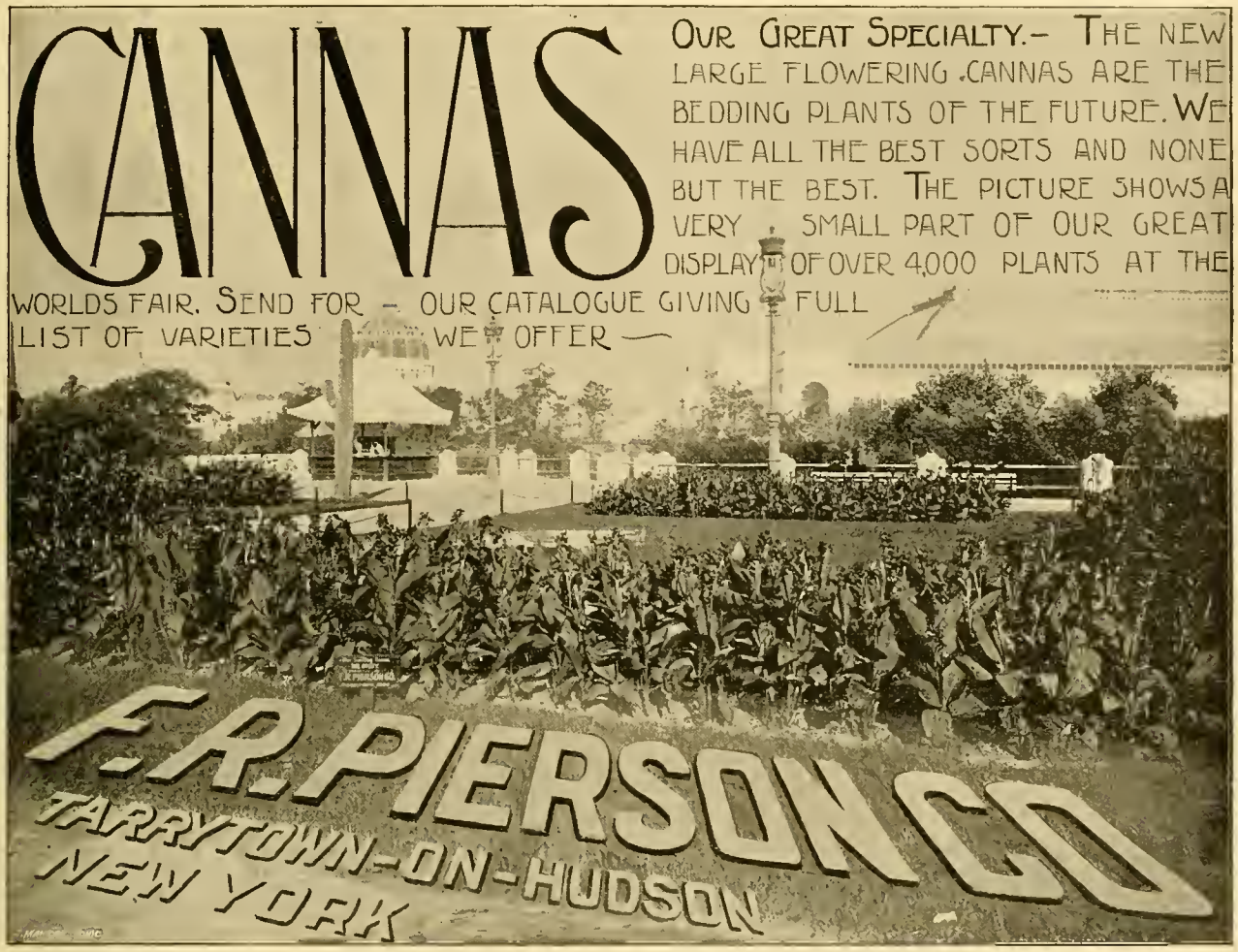
All arrangements for the chrysanthemum show are now complete. For cut flowers it promises to be the best show ever held here, but large specimen plants will many of them be too far gone to be seen at their best. Entries are coming in apace for all classes.

Cut blooms for the Toronto show can cross the line from the States duty free if in by the 21st inst.

E.

Boston.

The chrysanthemum show was favored with a very large attendance from the opening to the closing day. In the afternoons the crowds were the largest. Very few professionals from a distance were present this year, owing probably to the fact that almost every show of any account in the country took place during the same week.



100 % PROFIT and no risk in taking subscriptions for GARDENING from your customers. Write for particulars.

THE GARDENING CO., Monon Bld'g, Chicago.

Do YOU WANT an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our trade directory and reference book.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—As florist or private gardener, by young man, speaking French, German and English. Best of references. Address
PROSPER HENRY, 1406 N. Clark St., Chicago.

SITUATION WANTED—By a practical florist, willing and able to do any kind of greenhouse work; can take full charge of commercial place. Good recommendation. Address Box 551, Batavia, Ill.

SITUATION WANTED—By thorough, practical florist and gardener; gentleman's, private or commercial place. Roses carnations, violets a specialty. Best references. Address
G. W., box 38, Brooklyn Village, Ohio.

SITUATION WANTED—As manager or foreman by practical florist; many years' experience; roses, carnations, chrysanthemums, general stuff. First-class designer and decorator; good salesman; excellent references. SOBER, care American Florist.

SITUATION WANTED—As manager or foreman; thorough, practical grower of roses, carnations, violets, decorative and bedding plants, forcing of bulbs. Private or commercial. References European and this country. State wages, etc. D. NELSON, 6454 Lexington Ave., Woodland Park, Chicago.

WANTED TO EXCHANGE—Double Pearl Tuberoses for single. Address
OLAF OLSSON, 703 Guadalupe St., Austin, Tex.

WANTED—A good man to grow fine flowering plants, bulb stuff, etc. Address with reference.
JNO. E. ROSE, 105 E. Broad St., Richmond, Va.

FOR SALE—$4,000, $2,500 cash; established business; seven-roomed dwelling; 4,500 feet of glass; well stocked. Population 3,500; commands trade of 30,000 people. Good reason for selling. Address
INDIANA, care American Florist, Chicago.

For Sale.

My stock (20 shares) in Probst Bros. Floral Co. For particulars, write
SAMUEL MURRAY,
1017 Broadway, KANSAS CITY, MO.

SITUATION WANTED.

As manager or superintendent on commercial or private place, by a thoroughly practical florist of 9 years' experience in the East and West in growing and forcing of bulbs, plants, cut flowers, etc. of every description. I am German, 27 years old; able stenographer, bookkeeper, typewriter and fine penman, correspoading in German and English. Pushing and energetic; want engagement at once. No reasonable offer will be refused. First-class references Address
S. HERZOG, 611 Pine St., San Francisco, Cal.

FOR SALE.

Rose and Carnation Growing Establishment: also well adapted to Smilax and Asparagus.

Several acres of ground; 15,000 feet of glass; substantial buildings, with all modern improvements, only five minutes from center of city of 30,000 population, convenient to New York and Philadelphia. Will be sold for much less than cost of erection; terms easy.
Address EASTERN, care American Florist.

SITUATION WANTED

BY COMPETENT DESIGNER; acknowledged the best man in his line at his present place, city of 240,000 inhabitants. Fast, artistic worker, not afraid of any work.

VERY SUCCESSFUL AT FLORAL EXHIBITIONS. Address
FLORAL ART, care American Florist, Chicago.

SPEAK QUICK!

IF YOU WANT THEM.

25 LATANIA BORBONICA,	12-inch pots, fine specimens, $20.00 each.	
NEPHROLEPIS EXALTATA,	4-inch. . .	$10.00 per 100
" "	3-inch. . .	7.00 per 100
PHOENIX RUPICOLA,	6-inch.	10.00 per doz.

All the above in fine condition and ready for a shift.

JOHN IRVINE GREENHOUSE CO.,
BAY CITY, MICH.

HEADQUARTERS for WATER LILIES

SEED, TUBERS AND PLANTS.

Embracing all the newest and choicest in cultivation. Awarded SIX MEDALS at World's Fair—the highest number of awards for aquatics.

Illustrated descriptive Catalogue free on application.

Wm. TRICKER, DONGAN HILLS, New York.

OVER 40 PREMIUMS.

Stock grown in our houses has taken over

40 OF THE BEST PREMIUMS

at the World's Fair Chrysanthemum Show just closed in Chicago. In the strongest competition ever held in the West on Roses our stock received over **25 Premiums.**

EVERY FIRST PRIZE ON AMERICAN BEAUTIES.
EVERY FIRST PRIZE ON METEOR.
EVERY FIRST PRIZE ON PERLES.

FIRST PRIZE ON LA FRANCE.
FIRST PRIZE ON ALBANY.
FIRST PRIZE ON MERMETS.
FIRST PRIZE ON BRIDESMAID.

OUR STOCK TOOK THE WORLD'S FAIR GOLD MEDAL FOR BEST 50 AMERICAN BEAUTIES.
OUR STOCK WAS USED ON THE TABLE THAT TOOK FIRST PREMIUM.
OUR STOCK WAS USED IN THE ROSE BASKET THAT TOOK FIRST PREMIUM.
WE MADE 11 ENTRIES OF CHRYSANTHEMUM PLANTS AND RECEIVED 11 PREMIUMS.
OUR VALLEY IS AS GOOD AS EVER WAS GROWN.
WE HAVE EXTRA FINE ROMANS.

OUR LILIUM HARRISII are first-class and first in the market.

Our stock is the very best that comes into our Chicago market. We solicit your patronage, and are satisfied that we can give you satisfaction.

J. B. DEAMUD.
O. P. BASSETT.
C. L. WASHBURN.

J. B. DEAMUD & CO.

45 Lake Street, **CHICAGO.**

CUT FLOWERS.

Novelties and New Introductions in

ROSES AND CHRYSANTHEMUMS.

Fine Exhibition Stock.

THOS. YOUNG, JR.,
WHOLESALE FLORIST,
20 WEST 24TH ST., NEW YORK.

DAN'L B. LONG,
COMMISSION • FLORIST,
495 Washington St., BUFFALO, N. Y.
FORCING BULBS, FLORISTS' SUPPLIES,
LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application.

W. ELLISON,
WHOLESALE
Cut Flowers AND Florists' Supplies
1402 PINE STEET,
St. Louis, Mo.

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
WHOLESALE
FLORIST,
1122 PINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

"JACQ" ROSES the Year Around.

We are now Cutting THOUSANDS DAILY of

* METEOR ROSES. *

The finest Crimson Summer Rose, equal to "Jacq" in color and far superior in keeping qualities. Can supply it in quantity at all times. Prices on application.

F. R. PIERSON COMPANY,
Tarrytown-on-Hudson, N. Y.

CHRYSANTHEMUMS that have no superior
VALLEY that can't be beat—it is fine.
ROSES, all varieties first-class.
CARNATIONS in variety.
* * ADIANTUM, ASPARAGUS and all flowers in season.

Send in your orders; I can fill them; and will properly pack and ship on time.

CORBREY & McKELLAR,
WHOLESALE AND COMMISSION FLORISTS,
PHONE, MAIN 4508. 45 Lake St., CHICAGO.

FOR DECORATING, NOTHING CAN EQUAL

ASPARAGUS PLUMOSUS NANUS.
CUT STRINGS 8 TO 12 FEET LONG, 50 CTS.
12 TO 18 FEET LONG, $1.00.

Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.

W. H. ELLIOTT, Brighton, Mass.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO.

	Per 100
Perles, Niphetos, Gontier	$ 2.00@$ 3.00
Bride, Mermet, La France, Victoria	3 00@ 4 00
Testout, Meteor	5.00@ 6.00
Am. Beauty	10.00@ 18.00
Roses, our selection	3.00
Carnations, long	1.00@ 1.50
" short	.50@ 1.00
Valley	4.00@ 5.00
Chrysanthemums, common	2.00@ 6.00
" fancy	8.00@ 30.00
Smilax	15.00@ 18.00
Ferns	per 1000 $2.50. .30
Adiantum	1.00
Fresh Cycas leaves	$1.00 each.

Western Agent for the GREAT ANTIPEST.

Kennicott Bros. Co.
WHOLESALE CUT FLOWERS,
34 & 36 RANDOLPH STREET,
CHICAGO, ILL.
WIRE WORK A SPECIALTY.

A. L. RANDALL,
Wholesale Florist,
126 Dearborn St., CHICAGO.
Agent for finest grades Waxed and Tissue Papers.

NILES CENTER FLORAL CO.
Incorporated.
WHOLESALE GROWERS OF
CUT FLOWERS of ALL KINDS
and Dealers in FLORISTS' SUPPLIES.
In Chicago Cut Flower Exchange,
45 Lake Street, CHICAGO.

H. L. SUNDERBRUCH,
Wholesale Florist
4TH AND WALNUT STREETS,
Cincinnati, O.

WHOLESALE FLORISTS,
JOBBERS IN . . . FLORISTS' SUPPLIES, FLORISTS' VASES.
METS, BRIDES, GONTIERS, CARNATIONS, ALWAYS ON HAND.
1 Music Hall Place,
BOSTON, MASS.
HORTICULTURAL AUCTIONEERS. . .

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St., BOSTON, MASS.

CUT SMILAX,
15 cts. per string till November 1st. Quality first-class. Special attention to orders by wire.
J. E. BONSALL & SON, 308 Garfield Ave., Salem, O.

Wholesale Markets.

Cut Flowers.

NEW YORK, Nov. 13.

Roses, Gontier, Perle, Cusin, Watteville	.50@ 2.00
" Mermet, Bride, Hoste	.50@ 3.00
" Bridesmaid, Augusta Victoria	1.00@ 5.00
" Testout, Meteor, La France	1.00@ 5.00
" Beauty	5.00@25.00
Carnations	.30@ 1.00
Chrysanthemums, selected	8.00@15 00
" small	1.00@ 3.00
Violets	.25@ 1.00
Valley	2.00@ 3.00
Harrisil	15.00
Smilax	8.00@12.00
Adiantums	1.00
Asparagus	50.00

BOSTON, Nov. 13.

Roses, Gontier, Niphetos, Perle, Sunset	1.00@ 2.00
" Bride, Mermet	1.50@ 2.00
" Meteor, La France	2.00@ 4 00
" American Beauty	8.00@12.00
Carnations	.50@ 1.00
Chrysanthemums	2.00@10.00
Lily of the valley	4 00
Violets	.25@ .50
Smilax	12.00
Adiantum	1.00
Asparagus plumosus	50.00

PHILADELPHIA, Nov. 13.

Roses, Perle, Gontier, Niphetos	1.50@ 2.00
" Cusin, Watteville, Hoste	1.50@ 2.00
" La France, Mermet, Bridesmaid	3.00@ 4.00
" Bride, Testout	3.00@ 4.00
" Meteors, Kaiserin	4.00@ 6.00
" Belle, Beauty	12.00@16.00
Carnations, long	1.00@ 1.25
" short	.75
Violets, per 100 bunches, single	3.00@ 4.00
" double	.50
Chrysanthemums, first choice	16.00
" second choice	8.00@12.00
" sprays, per 100 flowers	2 00@ 3.00
Valley	3.00@ 4.00
Roman hyacinth	4.00
Paper White Narcissus	4.00
Smilax	12.00@15.00
Asparagus, per bunch	.50
Adiantum	1.00@ 1.50

CHICAGO, Nov. 14.

Roses, Perle, Gontier, Niphetos	2.00@ 3.00
" Bride, Mermet, La France	3 00@ 4.00
" Kaiserin	3.00@ 4.00
" Meteor, Testout	5.00@ 6.00
" Beauties	8.00@20 00
Carnations, long	1.00@ 1.50
" short	.50@ 1.00
" fancy	2.00
Valley	4.00@ 5.00
Romans	4.00
Paper White Narcissus	4.00
Harrisil Lilies	12 00@15.00
Chrysanthemums, common	2.00@ 6 00
" fancy	8.00@20.00
Violet double	1.00@ 1.50
Smilax	15.00@18 00
Asparagus	60 00

ST. LOUIS, Nov. 13.

Roses, Gontier, Perle, Niphetos	2.00@ 3.00
" Wootton	2.00@ 3.00
" Bride, Mermet, La France, Albany	3.00@ 4.00
" Kaiserin, Testout	3.00@ 5.00
" Beauty	5 00@20.00
Carnations, short	.75
" long	1.00
" fancy	1.00@ 2.00
Valley, Romans	4.00
Chrysanthemums, common	2.00@ 6.00
" fancy	8.00@20.00
Smilax	12.00@18.00

CINCINNATI, Nov. 11.

Roses, Beauty	10.00@20.00
" Mermet, Bride, La France	3.00@ 4 00
" Perle	3.00
" Niphetos	3.00@ 4.00
Carnations, long	1 25
" short	.50
Chrysanthemums	5 00@ 25.00
Violets	1.00
Valley	4.00
Narcissus, Romans	2.00@ 3.00
Asparagus	50.00@75.00
Smilax	15.00
Adiantum	1.00@ 1.25

BUFFALO, Nov. 14.

Roses, Beauties	12.00@20.00
" Mermet, Bride, Meteor	4.00@ 5.00
" Testout, La France	5.00@ 6.00
" Gontier, Niphetos, Hoste, Perle	3.00@ 4.00
Valley	4.00@ 5.00
Violets	.75
Carnations, long	1.00@ 2.00
" short	.75
Chrysanthemums	5.00@15.00
Smilax	12.00@15.00
Adiantum	1.50

GEORGE A. SUTHERLAND,
SUCCESSOR TO
PECK & SUTHERLAND,
Successors to WM. J. STEWART,
CUT FLOWERS
and Florists' Supplies.
WHOLESALE.
67 Bromfield St., BOSTON, MASS.

BURNS & RAYNOR,
29 West 28th Street,
NEW YORK,
Wholesale Dealers in and Shippers of
Choice Flowers
OUR SPECIALTIES:
Chrysanthemums, American Beauties, Meteors.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST,
32 West 30th Street, NEW YORK.
Roses Shipped to all points. Price list on application.

JOHN YOUNG,
Commission Dealer in
CUT FLOWERS.
WHOLESALE.
53 WEST 30TH ST., NEW YORK.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS,
51 W. 30th St., NEW YORK.

JAMES HART,
WHOLESALE FLORIST,
117 W. 30TH ST., NEW YORK.
The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHRS,
WHOLESALE
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.
Established 1879.

MILLANG BROS.,
Wholesale Florists,
17 WEST 28TH STREET,
NEW YORK.
BRANCH: Cut Flower Exchange, 408 E. 34th Street.

MICHAEL A. HART,
Wholesale AND Commission Florist
113 WEST 30TH STREET,
. . . NEW YORK.
THE FINEST ROSES AND CARNATIONS.
Branch, at Cut Flower Exchange, 408 E. 34th St.

Edward C. Horan,
34 W. 29th Street, NEW YORK,
WHOLESALE FLORIST.
Careful Shipping to all parts of the country.
Price list on application.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and treasurer, 116 Chambers street, New York. Next annual meeting second Tuesday in June, (will probably be held in Toronto.)

JOHN LEWIS CHILDS has been elected a member of the New York State Senate by a good majority.

BROOKLYN.—Henry Meyer has erected two greenhouses for retail trade on Newlots avenue, East New York.

ST LOUIS—R. F. Tesson is sending in to W. Ellison some of the finest Beauties, Brides and Mermets that come to this market.

PEORIA, ILL.—A chrysanthemum show was held here November 9, 10 and 11, in aid of a local charity. It was under the management of Cole Bros.

SCHENECTADY, N. Y.—Five of W. C. Eger's six greenhouses were either entirely destroyed or rendered worthless for future use without rebuilding by a fire early in the morning of November 11. Loss about $3,000, with no insurance. Owing to high special rates Mr. E. had allowed his policies to lapse awaiting more reasonable rates. The origin of the fire is not definitely known but incendiarism is suspected.

DOES IT PAY?

to wait till the last moment.

NO! Then order your

Bouquet Green, Cut Ferns, Sphagnum Moss, Xmas Trees, Holly, Festooning, and Xmas Green of all kinds.

And do it early. Write for prices—low as the lowest. A 1 goods, and the only place in the WORLD where you can ALWAYS get them.

H. E. HARTFORD, 18 Chapman Place, BOSTON.

WHOLESALE FLORISTS

La Roche & Stahl

N. E. CORNER 13th & Chestnut Sts., PHILADELPHIA.

Mention American Florist.

The Grand New Forcing Rose,

"American Belle."

Prices and full particulars on application.

John Burton, Chestnut Hill, Philadelphia.

ROSES.

		Per 100	Per 1000
1500	Perle, 3-inch	$ 5.00	$40.00
1000	" 2½-inch	3.00	25.00
600	Bride, 2½-inch	3 00	25.00
1200	Mermet, 2½-inch	3.00	25.00
200	Hoste, 2½-inch	3.00	

BROWN & CANFIELD, Springfield, Ill.

CUT FLOWERS.

Roses, Carnations AND Chrysanthemums.

Write for prices.

GEO. A. KUHL, Pekin, Ill.

SAMUEL S. PENNOCK,

Wholesale Florist

REMOVED TO REAR OF 42 S. 16th ST.,

Philadelphia, Pa.

Forcing Roses.

A stock of the best varieies always on hand.

M. A. HUNT, Terre Haute, Ind.

EXTRA HEAVY

TWO YEAR OLD HERMOSA ROSES.

We have growing in the open ground a beautiful lot of extra heavy, two year old Hermosa Roses. The plants average 24 to 30 inches in height, bushy and strong and will make fine plants to pot up into 6 and 7-inch pots for next **SPRING SALES.** *Price, $15.00 per 100; per 1000 $140.00.*

IMPORTED BUDDED ROSES.

Our importations of these arrive the latter part of November and promise to be very fine this season. We offer all the leading varieties as follows:

Alfred Colomb, Anna de Diesbach, Baron de Bonstettin, Baroness Rothschild, Boule de Niege, Duke of Edinburgh, Fisher Holmes, Gen. Jacqueminot, Gloire de Mousseuses (Moss), Magna Charta, Merveille de Lyon, Mons. Boncenne, Mrs. John Laing, Paul Neyron, Prince Camille de Rohan, Ulrich Brunner, White Baroness, Xavier Olibo.

$12.00 per 100; $100.00 per 1000.

Alfred K. Williams, Blanche Moreau (Moss), Captain Christy, Countess Murinais (Moss), Duchess of Albany, Earl of Dufferin, Gloire de Margottin, Persian Yellow, Queen of Queens, Rugosa, Rugosa Alba, Souvenir de Malmaison.

$15.00 per 100.

Gloire de Dijon. Marechal Niel.

Extra fine stock. $20.00 per 100.

NOW is the time to order the above. Pot the plants as soon as received and plunge the pots into a cold frame, where they will winter at little expense. Root action will begin almost at once, and the plants will be in the best possible condition to bring into your houses at the proper time, with much better result than if potted up late in winter or early spring.

If you are in need of **PALMS, FERNS** or other **DECORATIVE STOCK** do not fail to consult our trade list. We have forty houses filled with this class of plants, all in the best possible condition for immediate sales.

HENRY A. DREER, Philadelphia, Pa.

GARDINER'S
CLEARANCE OFFER OF SURPLUS BULBS

Let us hear from you at once as a quick movement is certain at the prices named.

	Per 100	Per 1000
Lilium Harrisii, 12 inches	$15.00	$
" Candidum	1 60	15.00
" Spec. Album, 7 to 9 in.	10.00	90.00
" " Rubrum, 7 to 9 in.	7.50	65.00
" " " 9 to 11 in.	9.00	80.00
Narcissus Obvallaris	1.50	
" Pallidus Præcox	1.50	
" Princeps	1.25	
Jonquils, Campernelle	.50	4.00
Ornithogalum arabicum	1.25	
Dielytra spectabils	3.50	

DOUBLE TULIPS.

Gloria Solis, crimson & yellow	.85	
Tournesol, red and yellow	1.35	12 50
Yellow Rose	.90	8.00
Fine mixed, late	.65	5.00
Finest mixed, early	.85	7.00

SINGLE TULIPS.

	Per 100	Per 1 00
Kaiser's Kroon, red & yellow,	$1.85	$17.50
La Reine, rosy white	1.00	9.50
Pottebakker, white	2.25	21.50
Proserpine, carmine rose	2.40	23.00
Rosa Mundi, rose and white	1.40	13.00
Rose Grisdelin, white & rose	1.90	18.00
Royal Standard, red & white	1.00	9.00
Vermillion Brilliant	2.10	20.00
Yellow Prince	2.10	20.00
Chrysolora, yellow	1.80	17.00
Cottage Maid, rose & white	2,00	19.00
Coleur Cardinal, crimson	1.20	11.00
Duc Van Thol, scarlet	.50	4.00
Crimson King	.65	5.50
Joost Van Vondel, red & white	1 50	14.00
Jagt Van Delft, white	1 20	
Fine mixed, early	.65	5.00
Finest mixed, early	.85	7.00

JOHN GARDINER & CO., 21 N. 13th St., Philadelphia, Pa.

Mention American Florist.

Oscar Knopff & Co.,

SEED GROWERS, ERFURT, GERMANY,

Flower, Kitchen Garden, Etc. Seeds.

LILY OF THE VALLY BULBS.

Best qualities at low prices. Orders promptly executed.

MEDAL AWARDED AT WORLD'S COLUMBIAN EXPOSITION

Sole Agents for United States and Canada:

C. B. RICHARD & CO., 61 Broadway, NEW YORK.

☞ Trade Catalogue for 1894 free on application.

Bulbs. Bulbs. Bulbs.

SURPLUS STOCK.

	Per 100	Per 1000
LIL. HARRISII, 5—7	$1.75	$15.00
" " 7—9	3.00	25.00
" CANDIDUM simplex, large bulbs	2.50	20.00
ROMAN WHITE HYAC., 11—15	1.75	15 00
ITALIAN, blush white Hyac., 13—17	2.00	18.00
NARCISSUS CAMPERNELLE	.70	5.00
" Chinese Sacred Lily, extra large	3.50	30.00

☞ All other bulbs very cheap.

HULSEBOSCH BROS.,

58 West Street, NEW YORK CITY.

Mention American Florist.

Bulbs & Plants.

FOR CATALOGUES, ADDRESS

C. H. JOOSTEN,

IMPORTER,

3 COENTIES SLIP, NEW YORK.

Mention American Florist.

WE SELL MUSHROOM SPAWN,

LILIUM HARRISII AND DUTCH BULBS.

Special Low Prices to Florists & Dealers.

WEEBER & DON,

Seed Merchants and Growers,

114 Chambers Street, NEW YORK.

When writing to any of the advertisers on this page please mention the American Florist.

Lilium Superbum

12,000 SPLENDID BULBS.

	Per 100	Per 1000
1st Size, extra	$6.00	$45.00
2nd Size, fine	3.50	30.00
3rd Size, strong	3.00	20.00

Finest stock on the market. Immediate orders.

Harlan P. Kelsey,

HIGHLANDS NURSERY, LINVILLE, N. C.

SEND for Catalogue of



JAPAN BULBS, SEEDS and SHRUBS, ARAUCARIAS, TREE FERNS, AUSTRALIAN PALM SEEDS, CALIFORIA BULBS and SEEDS to

H. H. BERGER & CO.,

Established 1878. SAN FRANCISCO, CAL.

Z. De Forest Ely & Co.

WHOLESALE SEEDSMEN,

Growers AND Importers of Bulbs.

JOBBERS IN FLORISTS' SUPPLIES.

1024 Market Street, PHILADELPHIA, PA.

Price lists to dealers on application.

Please mention the American Florist every time you write any of the advertisers on this page.

Watson's Corner

I offer a snap for the wide awake this week!

"SHAKESPEARE,"

The Best Forcing Gladiolus.

Splendid large bulbs, specially grown for forcing. Having an extra large lot of them and wishing to move them quickly, the price goes down from $8.00 to

$5.00 PER 100

as long as present stock lasts.

G. C. WATSON,

Wholesale Seedsman and Commission Merchant.

1025 Arch St., Phila., U. S. A.



Write for Wholesale List.

MICHEL PLANT AND BULB CO., ST. LOUIS, MO.

CHOICE SWEET PEAS.

Being the largest growers of the above in the world the trade are invited to send a list of their requirements and secure low prices for Fall delivery.

SHERWOOD HALL NURSERY CO.

Menlo Park and San Francisco, Cal.

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to

Seed Bags and Catalogue Envelopes.

NEW HAVEN, CONN.



TRY DREER'S

GARDEN SEEDS,

Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.

HENRY A. DREER,

Philadelphia, Pa.

CYCLAMEN persicum giganteum. 5-inch pots $9.00 per 100

PANSIES, Mammoth Strain, 75 cts. per 100 $5.00 per 1000.

CARNATIONS, Dorner's Seedlings, $15 per 100 Daybreak $8.00 to $10.00 per 100 McGowan, Puritan, Wilder, and others, $8.00 per 100. Second size $6.00 per 100 Correspondence solicited.

Address **J. G. Burrow,**

FISHKILL, N. Y.

Yonkers, N. Y.

The chrysanthemum show, held in Teutonia Hall, Yonkers, opening October 31, proved a very successful one. There was an admirable display, both of plants and cut flowers, and although the main exhibits came from amateur growers several well known florists were represented. The judges were Messrs. J. H. Taylor, John N. May, J. Roehrs, David Dunbar, John Wiffler and Henry Siebrecht.

J. N. May exhibited a vase of Mrs. Whitney rose and a seedling chrysanthemum "Washington Irving." Pitcher & Manda exhibited eighteen new chrysanthemums, many of them of the anemone class. Siebrecht & Wadley sent a vase of a new pink rose, Bella Siebrecht.

Among the amateur exhibits, which comprised the greater part of the show, were groups of palms and decorative plants, groups and single specimen chrysanthemums, cut blooms and seedlings. J. Hood Wright, W. E. Dodge, E. W. Weimar, R. C. Martin, David Hawley, Geo. H. Bend, Percy R. Pyne, F. Goodridge and Wm. H. Appleton were among the exhibitors. Prizes were given by various New York business houses, in addition to the money premiums offered by the management. The show was largely attended and a success in every way.

Siebrecht & Wadley,

ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.

Palms,
ORCHIDS
Roses,
and New Plants.

FRESH DRACAENA CANES NOW READY.

ORCHIDS.

The Finest Stock in the World.

SANDER'S,
ST. ALBANS,
ENGLAND.

Thirty minutes from London.

Our Mr. A Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

DO YOU KNOW . .

THAT YOU CAN GET

20 CANE STAKES FOR 1 CENT

A foot in length by simply using a sharp saw on a bundle of our best.

BRACKENRIDGE & CO.,
301 W. Madison St., BALTIMORE, MD.

FRESH IMPORTED ORCHIDS.

Cattleya Gaskelliana,

5—7 Bulbs, $.75 each.
7—12 Bulbs, 1.25 each.
Larger plants, $2.00 to $5.00 each.

I. FORSTERMAN,
Newtown, N. Y.

Phœnix rupicola.

This useful and beautiful Date Palm in EXTRA FINE PLANTS, growing in from 7 to 10-inch pots, from $3.50 to $7.50 each, according to size

EDWIN LONSDALE, Wyndmoor,
STATION "G," PHILADELPHIA.
(Chestnut Hill P. O.)

STOCK PLANTS OF

THE QUEEN,
CRAIG LIPPINCOTT,
HARRY BALSLEY,
MRS. JEROME JONES,
MRS. ROBERT CRAIG,

AND ALL THE PRIZE WINNERS. Good plants of above at 50 cts. each.

SEND US THE LIST which you made up at the shows and we will **fill it all** and save you money.

J. C. VAUGHAN,

NEW YORK: 26 Barclay Street.
CHICAGO: 146 & 148 W. Washington Street.

THE QUEEN.

Original stock, strong stock plants, $1.00 each.

FRED. S. WALZ, Station A, CINCINNATI, OHIO.

Chrysanthemums.

STOCK PLANTS.

The Queen.	Dr Mandeville.
Mrs. Craig Lippencott.	Harry Balsley.
K. Brown.	Mermaid.
W. N. Rudd.	Wanamaker.
Sue T. Price.	Mrs. J. G. Whilldin.
Mrs. Jerome Jones.	Ivory.
Ada Leroy.	Col. W. B. Smith.
Pres. Wm R. Smith.	Ed. Hatch.
Golden Wedding.	Geo. W. Childs.
Joey Hill.	The above at 25c. each.

The above at 50c. each.

All other varieties on application.

DAILLEDOUZE BROS.,
Flatbush, L. I, N. Y.

Rooted Cuttings

COLEUS, 10 sorts, 60c. per 100
BY MAIL.

SAMPLE DOZEN, without names, mailed for 10 cts.

S. O. STREBY,
Lock Box 77,
UPPER SANDUSKY, OHIO.

Cyclamen.

	Per 100	Per 1000
C. Persicum, 4-inch pots	$12.00	
C. Giganteum, 4-inch pots	18 00	

All showing flowers, and in good condition.

Evergreen Hedging Plants.

Euonymus Jap., 10 to 15 in.	6.00	50.00
" Golden, " "	10.00	
Evergreen Thorn (Cratægus Pyracantha), 12 to 18 inches	8.00	75.00

ANDREW L. BLACK,
115 E. Chase St., BALTIMORE, MD.

Chrysanthemums

FOR SALE: Stock plants of IVORY, A. SPAULDING, M. WANAMAKER, W. H. LINCOLN, H. E. WIDENER, MERMAID, at 2 for 25c.; 10 for $1 00; $10.00 per 100.

COL. WM. B. SMITH, KATE BROWN, and a few more good new ones, at 25c. each.

Orders booked now for rooted cuttings of Carnations and Chrysanthemums. Ivory A. Spaulding, and Wanamaker, Lincoln and Widener by the 1000 this year.

FRED. BURKI,
Wholesale Florist,
Allegheny Co BELLEVUE, PA.

CHRYSANTHEMUMS.

STOCK PLANTS.

Ada Spaulding, Bride, Edward Hatch, Eva Hoyt, H. E. Widener, Hicks-Arnold, Ivory, Jessica, Kioto, Mrs. R. Craig, Mrs L. C. Madeira, Mrs. Maria Simpson, Mrs. J. G. Whilldin, Mrs. Irving Clark, Minnie Wanamaker, Marguerite Jeffords, Mermaid, Tuxedo, at 25 cents per plant.

Anna Dorner, Etoile de Lyon, Gloriosum, H. Cannell, John Goode, Lillian Bird, Louis Boehmer, La Perle de Soie, Mrs. Langtry, Mrs. Lay, Mary Wheeler, Robt. Bottomley, Violet Rose, at 15 cents per plant.

MRS. EUGENIA T. POVALL, Booneville, Miss.

Association "Flora"

BOSKOOP, HOLLAND
NURSERIES.

Roses, Clematis, Shrubs, Azaleas, Palms, Herbaceous Plants, Bulbs, Etc.

Catalogue on Application.

P. OUWERKERK,
206 Cambridge Ave., JERSEY CITY, N. J.

Pteris tremula.

Three Thousand strong plants, in 2-inch pots, at $3.00 per hundred.

ART FLORAL CO.,
3911 Cottage Grove Ave., CHICAGO.

OUR SEEDLINGS WON

Read the Exhibition Reports and note that our Seedlings

CHALLENGE, large yellow of globular form;

EUGENE DAILLEDOUZE, large incurved yellow;

INTER OCEAN, reflexed, white suffused with pink;

Won High Honors wherever shown.

CHALLENGE received the $100 PRIZE

FOR BEST SEEDLING ON EXHIBITION, not yet disseminated, any color, at the World's Fair show, Chicago. Also first prize for best seedling shown prior to 1893 but not yet disseminated, at New York.

Eugene Dailledouze received a World's Fair Medal at Chicago for best yellow seedling; first prize at New York in same class, and first at Philadelphia for best seedling of 1893, any color.

Inter Ocean took the Medal at Chicago for best seedling "any other color"

SEE COLORED PLATES OF CHALLENGE AND EUGENE DAILLEDOUZE IN THIS ISSUE OF THE FLORIST.

E. G. HILL & CO., Richmond, Ind.

500,000 PANSIES

The Jenniugs Strain of large flowering and Fancy Pansies can be had in any quantity wanted up to Jan. 1st. They are the leading strain to-day, more being sold than any other in the market. Plants are field-grown and are very fine and stocky. Large, medium or small, one price 60 cts. 100 by mail; by express 1000 $5, 5000 $20, 10,000 $35, and plenty of extra plants gratis to help pay express. Yellow and white in separate colors if desired, same price. Florists try this strain of pansies. There is money in it. Only small plants by mail.

PANSY SEED—Pure white, yellow, or mixed, $1.00 per packet of 2500 seeds.

4,000 fine field-grown CARNATIONS, sold cheap to clean out. Send for prices.

ADDRESS **E. B. JENNINGS,**
WHOLESALE PANSY GROWER,
Lock box 254. **SOUTHPORT, CONN.**

ASPARAGUS PLUMOSUS NANUS, good plants, from 4-inch pots $20 per 100

ASPIDISTRA, variegated. A few fine plants, 5 and 6-inch pots $4 per dozen

CLIVIA, from fine new Europeau varieties. young plants, 4-inch pots $2 per dozen

EUCHARIS GRANDIFLORA, bulbs 5 to 6 in. circ., with healthy leaves. $3 per dozen

EULALIA UNIVITTATA $2 per 100; $15 per 1000

ARUNDO DONAX, variegated, strong roots, $2 per dozen. $15 per 100

IRIS GERMANICA, a fine pure white sort, perfectly hardy $10 per 100

PAEONIES, double white and double pink, two of the best, mixed $12 per 100

Any of the above will be sent on receipt of price with order.

ALEX. SCOTT.
Balto. Co., Lauraville, Md.

CLEMATIS.

Large flowering, colors in variety, double and single, strong blooming plants. Plenty of Jackmanni and Henryi, best purple and white, $3.00 per dozen; $20.00 per 100. Send for list.

CYCLAMEN persicum splendens, blooming bulbs, $8.00 per 100.

Snowflake Daisy, double white, $1.00 per 100.

Longfellow Daisy, double red, $1.00 per 100.

F. A. BALLER, Bloomington, Ill.

PALMS.

150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

Address **GEORGE WITTBOLD,**
1708 N. Halsted St., CHICAGO.

You Will all Want

The New Yellow Coleus GOLDEN CROWN,
As it takes all other yellows down;
And will soon be all the go,
Because so very easy to grow.

There is nothing **Pale** or **Weak** about it. You **can't afford** to run without it; $3.00 per doz. Orders booked now for delivery November 1st, or as soon as ready. Or Gibson's beautiful scented Hybrid Pansies, 2000 seeds $1.00. Or the finest Double Fringed Petunia (Dreer's Strain), hybridized by hand, 1000 seeds $1.50. Snow Crest Daisy, $5.00 per 100. Other specialties later. Or extra large mixed Freesia Bulbs, $1.00 per 100; 2nd size 50 cts., and small bulbs 25 cts. per 100. Cash with order please.

Address **J. C. GIBSON, Woodbury, N. J.**

3000 Field Plants,

full average size, in Neponset 4's in nice condition to ship by freight:

MRS. FISHER. . . .	$7.00 per 100
GOLDEN GATE	7.00 "
FRED. CREIGHTON	9.00 "
AURORA.	11.00 "
Also from soil inside:	
ANGELUS	8.00 "
AURORA.	10.00 "

EDW. SWAYNE, Carnationist, KENNETT SQUARE, PA.

CARNATIONS.

All the new and leading varieties. Send for prices on what you want.

GEO. HANCOCK, Grand Haven, Mich.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

CARNATIONS AND VIOLETS.

FIELD-GROWN.	Per 100
1000 GRACE WILDER	$5 00
200 PORTIA	5 00
300 HECTOR	5 00
400 L. L. LAMBORN	5 00
200 MRS. F. MANGOLD . . .	5 00
1000 MARIE LOUISE VIOLETS, strong clumps	5 00
200 REX BEGONIAS, 3-inch pots. . . .	7 00
SMALL FERNS, assorted varieties, suitable for fern pans, from 2-inch pots. . . .	4 00

EVENDEN BROS., Williamsport, Pa.

40,000 Carnations.

FIELD-GROWN FREE FROM RUST. Per 100
ALL SOLD EXCEPT

1000 Grace Wilder.	$ 5.00
1000 Portia.	5.00
500 Tidal Wave.	5.00
1000 Orange Blossom.	4 00
3000 Hinze's White.	4.00

Also extra fine strain of Pansies. Cold frame size. per 1000 $5.00;

CASH WITH ORDER.

Address **GEO. B. WHITEHEAD,**
Lock Box 116. **Greens Farms, Conn.**

Carnations.

Field plants all sold.

Orders solicited for early delivery of **ROOTED CUTTINGS** in varieties suitable for summer blooming.

C. J. PENNOCK,
The Pines. KENNETT SQUARE, Chester Co., PA.

Must Sell

as they are too fine to keep: **1000 BEAUTIFUL TIDAL WAVE CARNATIONS,** extra fine large clumps. Will sell below the lowest in order to dispose of them. Apply to

MRS. GEO. R. FRAVELL,
Marion and Maple Heights Greenhouses,
MARION, INDIANA.

Cromwell, Conn.

Mr. A. N. Pierson invited his friends to come and view his chrysanthemums last week. They responded in goodly numbers and felt well repaid for their trouble. Under the skillful care of Mr. Simpson the chrysanthemums and roses had done their prettiest and the display was a grand one. To the professional there was an added interest in the opportunity to inspect the newly completed buildings and other improvements which have been added during the year to this already extensive establishment. Three new iron frame rose houses, each 275 feet long, are included in the additions, and the rooms for storing, handling and packing the flowers are not excelled in completeness by any in the country. A cold storage house has accommodations for 400,000 lily of the valley roots, and all the ice used is cut and stored on the place.

Mr. Pierson's chrysanthemums are considerably later than the average in blooming, which is something of an advantage this year. Among the varieties that give greatest satisfaction are several of the Californians. Golden Gate is an especial favorite, and Mamie Sievers, yellow, and Leonora Sievers, white, are both good. Other vigorous looking varieties among the newer introductions are Joey Hill, Mrs. Rob't Craig, President W. R. Smith, W. G. Newett and Emma Hitzeroth. Golden Wedding is apparently diseased.

Roses are a big item here and Perle, Wootton, Sunset, Watteville, Cusin, Bride and Hoste all look as though the red Connecticut loam was just what they required. Seldom indeed are Wattevilles seen equal to those here produced.

Among carnations Emily Pierson is still the heaviest cropper in Mr. Pierson's estimation. It certainly looks very promising for this year.

Altogether, a trip to this establishment is a pleasure, for Cromwell is a pretty town and Mr. Pierson is a genial host.

CATALOGUE PRINTING. ELECTROTYPING.

Done with expert ability for Florists, Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.

. . . HARRISBURG, PA.



Kills Mildew and Fungus Growth. What does?

GRAPE DUST.

Sold by Seedsmen.

TRADE MARKS. COPYRIGHTS.

SOLICITOR OF U. S. AND FOREIGN PATENTS,
Atlantic Building, Washington, D. C.
(Send sketch or model for free examination as to patentability.

SEND FOR A COPY

—OF OUR—

TRADE DIRECTORY

AMERICAN FLORIST CO., CHICAGO

HOLLY.

It is conceded that the successful delivery of perishable stock in the best condition exactly when demand is active is secured only as the result of considerable experience and close study of all the controlling conditions. During the past ten years we have studied these conditions and have the experience. We have faith that we can supply "First-Class Stock on Time," and to prove our faith by our works, on all orders given us **in season, we will Guarantee arrival** or no pay. We attempt no competition in price with stock which has never yet arrived, or—arrived after Xmas.

"A Case of Holly in front of the store is worth four (4) on the cars."

J. C. VAUGHAN,

New York. CHICAGO.

CARNATIONS.

I have fourteen houses planted to carnations, and they are under my special care and supervision so that I can guarantee every cutting sent out.

If you will kindly write to me stating what varieties you want, how many of each, and when they are to be delivered, I will give you figures and think we can make a deal.

ANNIE PIXLEY.—This is a new pink, and one that you want to try; it is one of those beautiful light pinks, just the proper color. The stems can be cut fifteen to twenty inches long, the calyx never bursts, and it is such a strong grower and free bloomer that you can't help but make money if you plant it.

Orders will be filled in rotation, beginning now. Price per 100, $12.00; per 1000, $100.00. Twenty-five at 100 rate, 250 at 1000 rates.

PANSIES.

I will have good little plants right along until April 1st. The strain is good, extra good, and the price is very low, quality considered. Per 100, 75c; per 500, $3.00, free delivery; per 1000, $5.00, you to pay the delivery.

GERANIUMS.

Rooted Cuttings, all first-class varieties and good bedders. Price, in mixture, $10.00 per 1000; $1.50 per 100. In separate colors, $12.00 per 1000, or $2.00 per 100. There are no medium varieties among these; all are A No. 1.

Samples of any stock free. Terms absolutely cash with the order or C. O. D.

L. B. 496. ALBERT M. HERR, LANCASTER, PA.

100,000 VERBENAS.

THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.

NO RUST OR MILDEW.

Packed light, and satisfaction guaranteed. Send for circular. . . .

We are the largest growers of Verbenas in the country. Our sales reaching last year 215,500. Our plants this year fully equal, if not surpass, any we have ever grown.

J. L. DILLON, Bloomsburg, Pa.

25,000 PEONIES.

IN ALL COLORS.	Per 100
PINKS, assorted	$10 00
OLD RED or CRIMSON	12 00
WHITES, assorted	15 00
DOUBLE TENUIFOLIUM	35 00
NAMED SORTS, assorted	15 00

Clematis, Iris Kæmpferi, Yucca filamentosa,

and other hardy stock for florists' use.

Also a full line of

DUTCH AND FORCING BULBS

for fall planting.

THE JAMES KING SEED CO.

98 Lake Street, CHICAGO.

BARGAINS,

In these plants, to move quickly. I need the room.

Nice Primroses, single, from finest seed, Per 100
3-inch pots.. $5.00
Coleus, splendid plants from 2½-in. pots, including Golden Bedder, Verschaffeltii, and other good varieties..... 2.00
Rooted Cuttings Coleus, splendid asst... . .50
" " **Geraniums,** Mme. Sallerol. 1.00
" " **Geraniums,** all labeled, best bedding sorts... 1.25

Some nice field-grown Carnations still left.

2000 Portia, fine, strong plants. 5 00
1000 Fred. Dorner, fine, strong plants..... 5.00
300 Garfield, medium size, but good.... 5.00
300 Lizzie McGowan, medium size, but good..... 4.00
200 Tidal Wave, medium size, but good... 4.00
Farleyense Fern Plants, nice vigorous plants, from 3-inch pots, 25c. each; $2.50 per dozen.
Stock Plants Chrysanthemums, in good assortment, including most all the new varieties, 10 for $1.00. 25 plants at 100 rate. Address

N. S. GRIFFITH, Independence, Mo.

Independence is well located for shipping, being 8 miles East of Kansas City, Mo.

Mention American Florist.

Verbenas

SPECIAL OFFER.

	Per 100	Per 1000
Unsurpassed Mammoths, 2¼-inch pots....	$3.00	$25.00
" " rooted cuttings,	1.25	10.00
General collection, named, " "	1.00	8.00
" " " 2¼-inch pots...	2.50	20.00
H. P. Roses, dormant, strong.....	6 00	75.00
Tea " " "	6.00	50.00
Forcing " 3-inch pots, "	6.00	50.00

WOOD BROTHERS,
Fishkill, N. Y.

HYDRANGEA,

THOMAS HOGG,

3 and 4-inch pots, $4.00 and $6.00 per 100.

BRAUER & RICHTER,
McCONNELSVILLE, OHIO.

VIOLETS.

Fine clumps for forcing, single blue, $3.00 per 100. Cash with order.

R. HUGHES, Haddonfield, N. J.

TO FLOWER AND FRUIT GROWERS.

We offer **Muriate Potash, Nitrate Soda, Bone Black,** and all

Agricultural Chemicals,

Fungicides and Insecticides,

either crude or combined by standard formulas, in large or small lots, at lowest wholesale prices. **Ground Tobacco Stems**—Flower Fertilizer, put up in small packages for retail trade.

W. S. POWELL & CO.,
Fertilizer Manufacturers, Baltimore, Md.

FLORAL DESIGNS

The Cut Flower Worker's Friend. Fine book of 160 pages. Send **$3.50** for it, to

J. HORACE McFARLAND, Harrisburg, Pa.

New Incurved Yellow Chrysanthemum,

MAJOR BONNAFFON.

Awarded Special Columbian Medal at Chicago; and Certificate of Merit and First Prize for best new yellow variety at Indianapolis.

A very soft, clear yellow of the incurved type, full to the center; flowers measure 6 to 7 inches in diameter with nearly the same depth. Its perfect form and finish gives it the same graceful appearance as Ivory has when at its best. The habit of the plant is rather dwarf and not much inclined to branching; the short jointed shoots growing up to a height of 3 feet and forming a large crown bud with a small number of much smaller laterals. The stem intervening between flower and leaves is short and strong, thus placing the flower in an erect position on the center of the branch, clad in a rich, luxuriant foliage.

With flowers of good substance and unsurpassed keeping qualities, this variety will undoubtedly prove a great acquisition to market as well as show flowers, especially so for the one stem culture so much admired now.

Our large stock and its easy propagation enables us to offer this gem to the trade in large quantities at the following prices:

50 cents each, $5.00 per dozen, $35.00 per hundred.

50 at 100, and six at dozen rates. READY APRIL 1st, 1894.

FRED. DORNER & SON, La Fayette, Ind.

TO TAKE PLACE OF WIND MILLS

HOT AIR PUMPING ENGINES

A Windmill

Is unreliable because it depends upon the elements for its power; hydraulic rams also depend upon favorable conditions and waste as much water as they secure. Steam pumps require skill and hand pumps demand labor and time. The

DE LAMATER-RIDER OR DE LAMATER-ERICSSON Hot-Air Pumping Engines

are especially designed for pumping water, and from shallow streams or any kind of well. They are simple, safe and reliable, require no steam and have no valves. They require very little heat to operate them, and can be arranged for any kind of fuel.

Send for illustrated catalogue to

THE DE LAMATER IRON WORKS,
87 South Fifth Av.,
NEW YORK, N. Y.

J. N. STRUCK & BRO.

Manufacturers of

• CYPRESS •

Greenhouse Material,

LOUISVILLE, KY.

HOW TO GROW CUT FLOWERS.

A PRACTICAL TREATISE ON

THE CULTIVATION OF THE ROSE,

And Other Flowering Plants for **Cut Flowers**, sent to any address upon receipt of **$2.00.** M. A. HUNT, Terre Haute, Ind.

CUTS!

WOOD ENGRAVING,
PHOTO-ENGRAVING,
WAX ENGRAVING,
ZINC ETCHING,
HALF-TONE,
DESIGNING.

MANZ & CO.,
183 Monroe Street, CHICAGO. ENGRAVERS.

THE CHAMPION Automatic Ventilator.

The cheapest, easiest to operate, and by far the best machine in the market. Don't buy a Ventilator until you have seen my illustrated descriptive circular, which will be sent you free, giving prices, etc. Also **Champion Soil Pulverizer and Sifter.**

Address, Box 114. **E. E. WOLF,** SPRINGFIELD, O.

When writing to any of the advertisers on this page please mention the American Florist.

EVANS' IMPROVED

CHALLENGE VENTILATING APPARATUS

Write for Illustrated Catalogue.

QUAKER CITY MACHINE WORKS, Richmond, Ind.

Mention American Florist.

GLASS

which is absolutely perfect for modern greenhouse construction.

ROCK BOTTOM PRICES.

Send for Estimates. Satisfaction Guaranteed.

REED GLASS CO.,
65 Warren Street, and 46, 48 & 50 College Place.
NEW YORK CITY.

— OUR —

SASH LIFTER AND HINGES

will do the work and cost you less than any other
Send your name and address and we will mail you description and price.

BAY STATE HARDWARE CO.
272 Freeport Street, BOSTON, MASS

To Florists.

Use our **GREEN LINEN** for **SMILAX**; no fading; no breaking. . . .

D. B. SHERMAN & SON, Buffalo, N. Y.

Indianapolis.

The regular monthly meeting of the club was held Wednesday evening, November 1. It was very well attended, all members were instructed to be on hand to get things in shape for the show. Several new members were elected. The annual election will occur in December. A committee was appointed to look for a new meeting place. The club now numbers fifty members in good standing. A paper on construction of plant life and characteristics was delivered by Mr. J. J. B. Hatfield in a very satisfactory manner. He being a great student of scientific matters astonished a great many members, and will probably induce some to study other things than simply raising plants for profit. The meeting was a prolonged one and all departed having been well entertained. W. B.

WE TOLD YOU SO!

BAYERSDORFER
CANNOT BE BEATEN.

Once more a First-Class Certificate of Merit, at the

Chrysanthemum Show
and Kindred Trades Exposition in NEW YORK CITY,

— FOR —

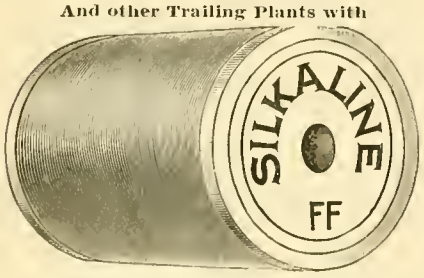
A FINE DISPLAY OF

FLORISTS' SUPPLIES.

If you will handle our goods you will have no cause to complain of hard times.

H. BAYERSDORFER & CO.,
56 N. 4th St.,
PHILADELPHIA, PA.
WHOLESALE ONLY. . . .

STRING SMILAX
And other Trailing Plants with



JOHN C. MEYER & CO.,
289 Devonshire St., BOSTON, MASS.
For sale by all leading Florists' Supply Houses.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

DO YOU SEE THIS?

IMMORTELLES, all colors.

Milkweed Balls, all colors.

CHENILLE, **Worsted and Silk,** all colors.

CAPE FLOWERS, White and Colored.

SPRINKLERS.

Wheat Sheaves **OUR SPECIALTY.**

CYCAS LEAVES. Etc., Etc.

Have you our Catalogue?

—o—

We have been *silent* for some time, but our complete line of

Florists' Supplies

and low prices will speak loud for us now, and the trade will have the benefit of it.

—o—

SEND IN A TRIAL ORDER.
GET OUR CATALOGUE.
WE'LL DO THE REST.

—o—

DOVES.

Dried Grasses.

WIRE.

Bouquet Papers.

BASKETS.

Artificial Flowers

Wax Flowers.

Artificial Leaves.

METAL DESIGNS all styles. Etc., Etc.

MARSCHUETZ & CO., 23 & 25 N. 4th St., PHILADELPHIA, PA.


FANCY. DAGGER.

EVERGREEN CUT FERNS
ESPECIALLY FOR FLORISTS' USE.
$1.25 per Thousand Ferns.



IN LOTS OF 5,000 AND UPWARDS, $1.00 PER 1000. Ferns furnished the year round. Special attention given to supplying the Wholesale Trade.
BOUQUET GREEN For Holiday Trade, $2.00 per barrel (thirty pounds); or $6.00 per hundred pounds. Special reduction in express rates.
SPHAGNUM MOSS a specialty. Long, clean fibre, dry or green, $1 per barrel, or six bbls. for $5. Write for terms on large lots. Terms cash, or goods will be sent C. O. D.
CHRISTMAS TREES. American White Spruce, much better shape and color than the Blue Spruce, also Balsam Fir from 3 to 30 feet high. Special attention to supplying carload lots. Write for price list and terms.

L. B. BRAGUE, Hinsdale, Mass.
City Stand During the Holidays: 47th St. and Lexington Ave., NEW YORK.

Bouquet Green and Holly.

EVERGREEN WREATHING IN TWO GRADES.
Fine Stock at Bottom Prices. . . .

W. W. BARNARD & CO.
6 & 8 N. Clark St., CHICAGO.

ELECTROTYPES of VEGETABLES, FLOWERS, ETC.
VILMORIN, ANDRIEUX & CO., Seed Growers, Paris.
Apply for Catalogues. Novelty sheet now ready.

Complete Stock in New York
— WITH —
THEO. PABST & CO., 26 Barclay Street.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO,

NATURAL GAS MADE GLASS

FOR GREENHOUSES.

Write for latest prices.

Mention American Florist.

Metal Memorial Designs,

WREATHS, CROSSES, HEARTS, STARS, ANCHORS, PILLOWS, BOUQUETS, ETC.,
of White or Green Metal Foliage and Porcelain Flowers.



True to Nature
Artistic
Chaste
Durable
Profitable

The best Xmas Cemetery Decoration.

Buy from Headquarters.

SEND IN YOUR ORDERS NOW.

For prices examine our Trade List, mailed free.

We put up

Well Assorted Collections for $10, $15, $20, $25, $30, $40, $50 net and more.

Strong Easels for above, nicely bronzed, furnished at 15, 18, 25 and 30 cts. each net.

Cycas Leaves, (Sago Palm), natural prepared, equal to fresh cut, always on hand, at 40c, 45, 50, 60, 75c and $1.00, according to size. **Cape Flowers, Immortelles, Wheat Sheaves, Moss, and a full line of Florists' Supplies. Send for Trade li st**

August Rölker & Sons, New York.

136 & 138 West 24th Street, near 6th Avenue, or Station E.

MEDAL AT WORLD'S FAIR.

ERNST KAUFMANN & CO.

FLORISTS' SUPPLIES,

113 N 4th Street, PHILADELPHIA, PA.

HUNTINGTON SEED CO.

Florists' : Supplies,

66 E. WASHINGTON ST,
INDIANAPOLIS, IND.

Standard Flower Pots, Dried Grasses, Fancy Baskets, Metal Designs. Trade Catalogue mailed free.

Increase Your Business

by fostering an interest in plants and flowers among the people in your vicinity. You can best do this by getting subscribers to

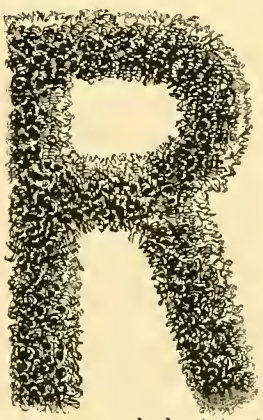
GARDENING . . .

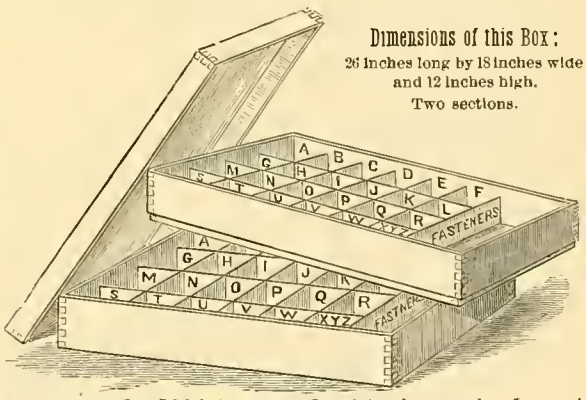
which tells people how to get the most satisfaction out of their gardens, and stimulates them to enlarge and extend their gardening operations.

$1.00 A YEAR is the subscription price of this paper, which is issued twice a month, is handsomely and truthfully illustrated, is thoroughly practical, absolutely free from wind and gush and grinds no axes for anyone.

SPECIAL LOW RATE to florists who will act as agents. We want an agent in every city and town in America. Write for terms now to

THE GARDENING CO.
Monon Building, CHICAGO.





Dimensions of this Box:
26 inches long by 18 inches wide and 12 inches high.
Two sections.

With an order for 500 letters, we furnish a box made of wood nicely stained and varnished, such as is represented in the cut.

BOSTON FLORIST LETTER CO.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1½-in. and 2-in. 2.00 per 100. Patent fastener with each letter.

OUR NEW SCRIPT LETTER, $4.00 per 100.

N. F. McCARTHY, Treas. & Mangr. | Address 13 Green St., **Boston, Mass.**

Address all correspondence to 1 Music Hall Place.

We have a new **FASTENER** which we consider a decided success. Any customers having old style fasteners which they wish to exchange, can do so without additional cost by writing us.

AGENTS:

A. Rolker & Sons, New York.
Marschnetz & Co., 25 N. 4th St., Phila., Pa.
F. E. McAllister, 22 Dey St., New York.
A. D. Perry & Co., 33 Warren St., Syracuse, New York.
Ernst Kaufmann & Co., 113 N. 4th St., Phila.
H. Bayersdorfer & Co., Philadelphia, Pa.
A. C. Kendal, 115 Ontario St., Cleveland, O.
J. A. Simmers, Toronto, Ont. Agent for Canada.
E. H. Hunt, 79 Lake St., Chicago, Ill.
Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.
H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.
T. W. Wood & Sons, 6th and Marshall Sts. Richmond, Va.
Jas. Vick's Sons, Rochester, N. Y.
C. A. Kuehn, 1122 Pine St., St. Louis, Mo.
D. B. Long, Buffalo, New York.
C. F. Huntington & Co., Indianapolis, Ind.
Z. De Forest Ely & Co., 1024 Market St., Philadelphia, Pa.
Portland Seed Co., 171 2d St., Portland, Ore

These Letters are handled by all the Wholesalers in Boston.
Mention American Florist.

HAIL

LOCK THE DOOR BEFORE THE HORSE IS STOLEN.
DO IT NOW.
JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.
Mention American Florist.

THE GREAT ANTIPEST.

For particulars, see next week.
R. W. CARMAN, GEN'L AGT.,
291 Amity Street, FLUSHING, Queens Co., N. Y.
Mention American Florist.

Chicago.

Elijah Chrysanthemum Tid-bit Wood has gone westward to award the prizes at the Denver show. May he have an enjoyable trip and return safely to the Hub to begin the work of "building" flowers to a proper depth for next year's shows.

Edwin Chrysanthemum-Carnation Lonsdale was discovered by a long lost cousin now living in Milwaukee, during the progress of the show, who saw his name mentioned in the daily press and hunted him up. They had not seen each other for 25 years. Mr. L. paid his cousin a short visit at his Milwaukee home before returning to the east. He left Chicago for Philadelphia on Tuesday.

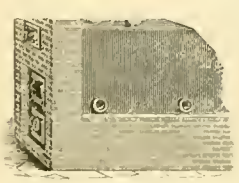
The rapidity with which the exhibition in the Art Institute was dismantled on Monday was remarkable. By noon the halls were practically cleared and barely a trace of the great show was left. But, thanks to the camera, some of its beauties were preserved and will be presented to readers of the FLORIST in future issues.

"Uncle John" Thorpe has entered into partnership with O. J. Friedman, a local florist, and will remain in this city, having severed his eastern connections.

The chrysanthemums have dropped a little in price since the show, and sales are slower. This may be the result of a lessening interest in the flowers, or it may be that poorer quality of bloom has something to do with it. The main crop is now over, and few later blooms are coming in to take their place. Some fine blooms of Niveus and Domination are about the best noted. A good many flowers of undecided color are sent in, but there is no sale for them.

Harrisii lilies and paper white narcissus have made their appearance. The Harrisii is good, though some of it is decidedly green yet. It is sold for $1.50 to $2 a dozen. The narcissus goes very slowly, in fact it is hard to get rid of it. Violets still keep stiff at $1.50. Quite a lot of violets have been received from the south; they are of good quality, but deficient in odor. Good roses are a little scarcer than they were, Beauties especially running rather short, and they still hold their price. Handsome wreaths of mountain laurel (kalmia) are being received; they are well made, of good foliage and sell well for funeral work. A large number was sold at the time of the late mayor's funeral.

Recent visitors: John Nelson, Oshkosh, Wis.; F. E. Carr, West Cleveland, Ohio; E. A. Suder, Toledo, Ohio.



GREEN-HOUSE HEATING,
MYERS & CO.
1518 & 1520 S. 9th St.,
PHILADELPHIA.
Send for catalogue and price list.

STANDARD FLOWER POTS.

	Price List.				
2 -inch,	Per 1000	$3.25	7-inch,	Per 100	$ 3.50
2¼-inch,	"	3.50	8-inch,	"	5.00
2½-inch,	"	4.00	9-inch,	"	7.50
3 -inch,	"	5.00	10-inch,	"	10.00
3½-inch,	"	7.25	11-inch,	"	15.00
4 -inch,	"	9.00	12-inch,	"	20.00
5 -inch,	"	13.80	14-inch,	"	40.00
6 -inch,	"	22.00	16-inch,	"	75.00

Terms cash, f. o. b. Address
HILFINGER BROS. POTTERY, Fort Edward, N. Y.
August Rolker & Sons, 136 & 138 W. 24th St., New York City, Agents for New York and vicinity.

D. H. ROBERTS,
159 & 161 South Fifth Ave., New York.
NATURAL GAS MADE GLASS,
for Rose Houses, Conservatories, etc., etc.
Look at our World's Fair Exhibit in Horticultural Building.



Mention American Florist.

THE "LOCKLAND"
Sash Bars
ARE ALWAYS SATISFACTORY.
This cut represents our improved Clipper Bar for Butted Glass roof—putty to be used under glass only.
GUTTER MATERIAL, RIDGES, SASH, ETC.
The finest CLEAR CYPRESS used.
Write for circulars and estimates. . . .
LOCKLAND LUMBER CO.
Lockland, O.

"Standard" Flower Pots.
As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address
The Whilldin Pottery Company,
BRANCH WAREHOUSES: 713, 715, 717 & 719 Wharton St., Philadelphia, Pa.
Randolph Ave. and Union St., Jersey City, N. J.
Jackson Ave. and Pearson St., Long Island City, L. I.

STANDARD FLOWER POTS
Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.
A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.
We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.
Send for price list and samples and we know you will give us an order.
SYRACUSE POTTERY CO. OFFICE: 403 North Salina Street, SYRACUSE, N. Y.

STANDARD FLOWER POTS.
OLD RELIABLE MAKE OF
ELVERSON, SHERWOOD & BARKER.
Write for Catalogue and Price List.
PITTSBURGH CLAY MFG. CO. New Brighton, Pa.

STANDARD FLOWER POTS
Our new **Pottery**, new **Machinery**, the very **best Clay** in the **Country**, and our new **Patent Kilns**, all combined, make the **best Standard Pot in the market.** Send for price list.
PARMENTER MF'G COMPANY,
GEORGE MESSINGER, Manager. East Brookfield, Mass.

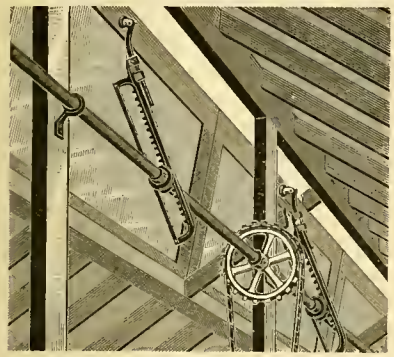
FRENCH GLASS For CONSERVATORIES, ROSE HOUSES, Etc. Etc.
VANHORNE, GRIFFEN & CO.,
Importers of PLATE and WINDOW GLASS. Manufacturers of BENT GLASS and FRENCH MIRRORS.
131-133-135-137 FRANKLIN STREET, NEW YORK.
Note—Imported Glass is used in the best grade of Greenhouse building

SEE HERE

BROTHER

FLORIST!

Aren't you tired going through your houses two or three times a day year after year and lifting your ventilating sash one at a time and propping them up with sticks or pots, with a chance of having sash blown off and broken glass to pay for? If you are



We have got just the thing you need, the **NEWEST** and **BEST** thing out. "The New Departure" for **about half** the cost of the old style. Send for Descriptive Catalogue to

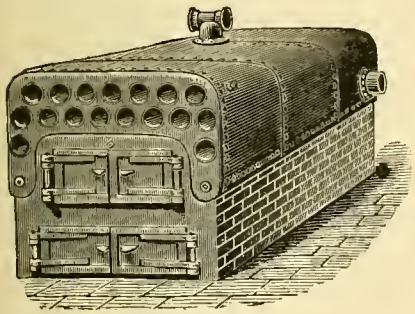
J. D. CARMODY, Evansville, Ind.

ESTABLISHED 1854.

DEVINE'S BOILER WORKS.

THE FLAT TOP TYPE

Wrought Iron Hot Water Boilers



Capacity from 350 to 10,000 feet of four-inch pipe. SEND FOR NEW LIST.

FRANK DAN BLISH, Att'y,

OFFICE, 189 STATE STREET.

WORKS, 56th & WALLACE STREETS.

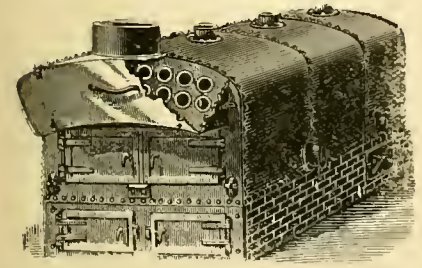
CHICAGO.

KROESCHELL BROS.

IMPROVED

Greenhouse Boiler,

41 to 55 Erie St., CHICAGO.



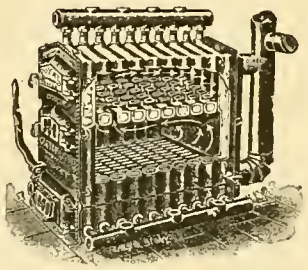
Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

ROYAL HEATERS

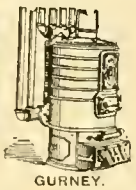
The right kind of Boiler in a greenhouse means success with flowers.

HART & CROUSE,

UTICA, N. Y.



Gurney



GURNEY.

HOT WATER HEATERS AND RADIATORS FOR HEATING Dwellings, Public Buildings, Etc. BY HOT WATER CIRCULATION.

Best for Greenhouses.

Our illustrated book "How best to Heat our Homes" gives the reason why. We send it free.

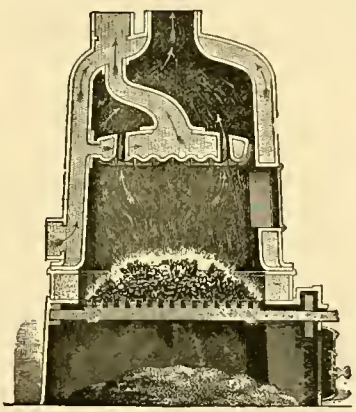
THE BEST IS CHEAPEST.

Gurney Hot Water Heater Co.

HEAD OFFICE:
163 Franklin St., Boston, Mass.
BRANCH OFFICE:
59 Wabash Ave., Chicago, Ill.
SELLING AGENCIES:
Johnson & Co., 71 John St., New York.
J. C. F. Trachsel, 246 Arch St., Philadelphia.



DOUBLE CROWN.



JOHN A. SCOLLAY,

74 & 76 MYRTLE AVE.,

BROOKLYN, N. Y.

GREENHOUSE HEATING

— AND —

Ventilating Apparatus.

Patentee and Manufacturer of

HOT WATER BOILERS,
GREENHOUSE PIPE,
PIPE FITTINGS,
VALVES, TANKS, ETC.

☞ Estimates of cost given, and Illustrated Catalogue furnished on application.

VICTORY! VICTORY! VICTORY!

The only Certificate of Merit awarded for ventilating apparatus at the St. Louis Convention was to the

POPULAR STANDARD VENTILATING MACHINE

The florist's friend in working and prices.



No repairs for 5 years, no chains to break as is the result with others.

Opens Sash uniform on 100 foot houses. A new device.

Send for Catalogue and Estimates.

E. HIPPARD, Youngtown, Ohio.

ESTABLISHED 1866.

FLORISTS WIRE DESIGNS

MANUFACTURED BY

N. STEFFENS

335 EAST 21ST ST. NEW YORK.

Index to Advertisers.

Adv. Rates, etc.....351
Art Floral Co.....356
Baller F A 357
Barnard W W & Co .. 360
Bayersdorfer H & Co..360
Bay State Hdw Co.....359
Berger H H & Co.....355
Black Andrew L.. 356
Bonsall Jos E & Son ...353
Boston Letter Co 361
Brackenridge & Co.....356
Brague L B.....360
Brauer & Richter.... 358
Brown & Canfield.....354
Burki Fred.. 356
Burns & Raynor.....353
Burrow J G.....355
Burton John..... 354
Carman R W.....361
Carmody J D.....363
Chaudlee Geo H.....358
Corbrey & McKellar...352
Dailledouze Bros 356
Deamud J B & Co.....352
De Lamater Iron Wks.359
Devine's Boiler Wks...363
Dillon J L.....358
Dorner Fred & Son.....359
Dreer H A 354 355
Elliott W H.....352
Ellison Wm.....352
De Forest & Co..355
Farnden Bros 357
Forsermann I. 356
Fravell Mrs Geo R....357
Gardening Co The.351 361
Gardiner John & Co....355
Gibson J C.....357
Goodyear Rubber Store 364
Griffith N S.....358
Gurney Heater Co.....363
Hall Ass'n.....361
Hammond Benj.....358
Hancock Geo 357
Hart James.....353
Hart Michael A.....353
Hart & Crouse.....363
Hartford H E.....354
Herendeen Mfg Co.....364
Herr Albert M.....358
Hews A H & Co.....362
Hilfinger Bros.....362
Hill E G & Co.....357
Hippard E.....363
Hitchings & Co.....364
Hooker H M Co.....360
Horan Edw C.....353
Hughes R..... 358
Hulsebosch Bros.....355
Hunt E H..... 353
Hunt M A.....354 359
Hunter Frank D.....353
Huntington Seed Co...361
Irvine John Co.....351
Jennings E B.....357
Joosten C H.....355
Kaufmann Ernst & Co.361
Kelsey Harlan P.....355
Kennicott Bros.....353
King Seed Co.....358
Knopff Oscar & Co.....355
Kroeschell Bros 363
Kuehn C A.....352
Kuhl Geo A. 354
La Roche & Stahl.....354
Lockland Lumber Co...362
Long Dan'l B.....352
Lonsdale Edwin.....356
Lord & Burnham Co...364
McCarthy N F & Co....353
McFarland J H.....358
McFarland J H Co.....358
Manz J & Co.....359
Marschuetz & Co.....360
Meyer John C & Co ...360
Michel Plant & Bulb Co 355
Millang Bros.....353
Moffatt G J.....355
Moninger Jno C.....364
Murray S..... 351
Myers & Co.....362
Niles Centre Floral Co.353
Ouwerkerk P.....356
Pabst Theo & Co.....360
Parmenter Mfg Co.....362
Pennock C J.....357
Pennock Sam'l S.....354
Pierson F R Co....351 352
Pittsburg Clay Mfg Co.362
Povall E T 356
Powell W S & Co.....358
Quaker City Mach Co..359
Randall A L 353
Reed Glass Co.....359
Roberts J H.....362
Roehrs Theo.....353
Rolker A & Sons.....361
Sander & Co. 356
Scollay John A. 363
Scott Alex.....357
Sheridan W F.....353
Sherman D B & Son....359
Sherwood Hall Nur Co.355
Siebrecht & Wadley....356
Situations. wants.....351
Steffens N.....365
Streby S O 356
Struck J N & Bro.....359
Sunderbruch H L.....353
Sutherland Geo A.....353
Swayne Edward.....357
Syracuse Pottery Co...362
Tricker Wm.... 351
Van Horne Griffen & Co 362
Vaughan J C..... 356 358
Walz Fred S.....356
Watson G C.....355
Weathered's Sons T W.364
Weeber & Don.....355
Welch Bros.....353
Whilldin Pot Co ..362
Whitehead Geo B.....357
Wight W P... 364
Wittbold George.....357
Wolf E E 359
Wood Bros.....358
Young John.....353
Young Thos Jr.....352

DES MOINES, IA.—The 28th annual meeting of the Iowa State Horticultural Society will be held in this city November 21 to 24. The program has been issued and copies may be had on application to the secretary, Mr. J. L. Budd, Ames, Ia.

PLEASE WRITE on your printed letter head when addressing our advertisers. If you have no printed letter head, then enclose your business card or bill head.

THE AMERICAN FLORIST and *Gardening* together to one address for $1.75. Send orders to the American Florist Co.

CYPRESS GREEN HOUSE MATERIAL

CLEAR

GoodellHH 15Dec93
Mass Agri Col

CYPRESS

SASH

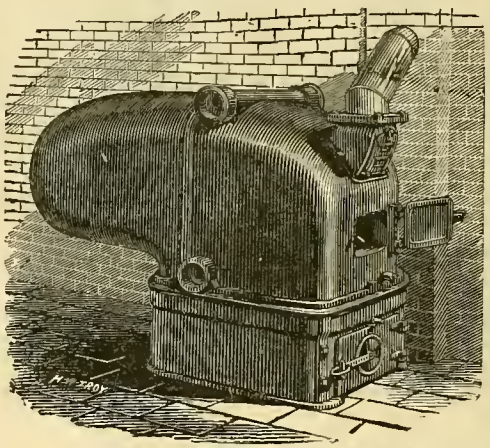
BARS

HOT B ND VENTILATING SASH

JOHN C. MONINGER,
297 Hawthorne Ave.
CHICAGO, ILL.

GREENHOUSE HEATING AND VENTILATING

Horticultural Architecture and Building.



HITCHINGS & CO.

Established 1844.

233 Mercer St., New York.

FIVE PATTERNS OF BOILERS.
NINTEEN SIZES.

Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc., of Iron Frame Construction, Erected complete, or the Structural Iron Work shipped ready for erection.

Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Top.

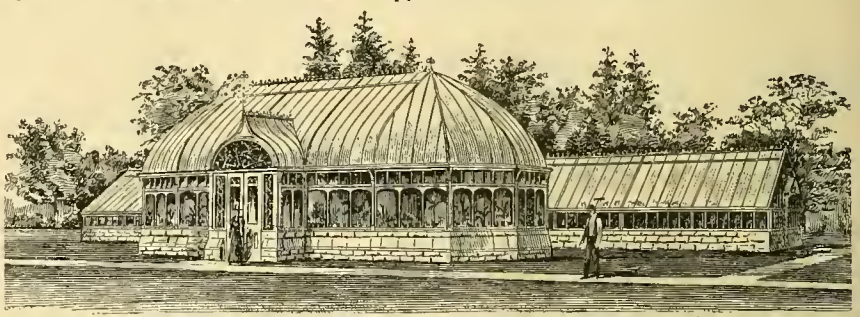
SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.

LORD & BURNHAM CO.

Horticultural Architects and Builders,

STEAM AND HOT WATER HEATING ENGINEERS.

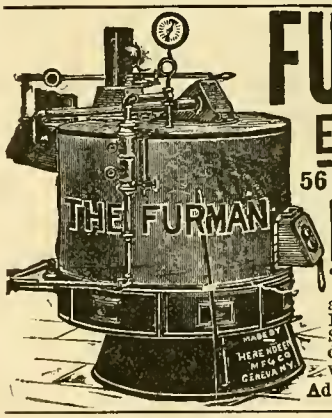
☞ Plans and estimates furnished on application.



Front view of a portion of our exhibit at the World's Fair.

. . . SEND FOUR CENTS POSTAGE FOR ILLUSTRATED CATALOGUE. . . .

LORD & BURNHAM CO., Irvington-on-Hudson, N. Y.



FURMAN BOILERS

Economical—Substantial—Safe.

56 STYLES AND SIZES—BURNS HARD OR SOFT COAL.

Modern Hot-Water Heating

These Boilers have a high repntation for Staunchness, Durability and Safety, and are GREAT COAL SAVERS. Minimum Friction and Maximum Velocity only obtained by VERTICAL WATER CIRCULATION. Send for new 150-page book giving full particulars and a great deal of valuable information on modern Heating and Ventilation, with plans and tables for correct hot-water work. Mailed free.

Address HERENDEEN MFG. CO., 26 Vine Street, GENEVA, N. Y.

THOS. W. WEATHERED'S SONS,

INCORPORATED.

Horticultural Architects and Hot Water Engineers

Send for Catalogue, enclosing 4 cents in stamps.

No. 244 Canal St., NEW YORK CITY.

THE PERFECT DRAINAGE

BENCH TILE

For circulars, etc., address

W. P. Wight, Upland Green Houses,

Send your business card. MADISON, N. J.

FLORISTS' HOSE,

Made by E. W. Holt, member of the Society of American Florists.

Goodyear Rubber Store,

2 W. 14TH ST. NEW YORK.

THE AMERICAN FLORIST

A WEEKLY JOURNAL FOR THE TRADE

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. IX. *CHICAGO AND NEW YORK, NOVEMBER 23, 1893.* *No. 286*

THE AMERICAN FLORIST

Copyright 1893, by American Florist Company. Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.
322 Dearborn Street, Chicago.

Subscription, $1.00 a year. To Europe, $2.00.

Address all communications to

AMERICAN FLORIST COMPANY,
P. O. Drawer 164, CHICAGO.
Eastern Office: 67 Bromfield St., Boston.

SOCIETY OF AMERICAN FLORISTS.

WM. R. SMITH Washington, D. C., president; PROF. WM. TRELEASE, St. Louis Mo., vice-president; WM. J. STEWART, 67 Bromfield St. Boston, Mass. secretary; M. A. HUNT, Terre Haute, Ind., treasurer.

The new officers, to be installed Jan. 1, 1894, are: J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; secretary and treasurer the same as for 1893. The next annual meeting will be held at Atlantic City, N. J., August, 1894.

CONTENTS.

Chrysanthemum shows—Washington 365
—Springfield, Mass. 366
—View of New York show (illus) 367
—Elmira, N. Y. 367
—Germantown, Pa. 368
—Hartford, Conn. 368
—New Bedford, Mass. 368
—A corner at the New York show (illus). . . . 369
—New Haven, Conn. 369
—Wayne, Pa. 369
—San Francisco 369
—Brooklyn, N. Y. 369
—Oshkosh, Wis. 370
Chrysanthemums—Short single stem plant . . 370
—From Elmira 370
—Review of varieties 370
—Specimen plants at Boston show (illus). . . . 371
Carnations—Notes. 372
—At the New York show 372
—Watering and feeding 372
Miscellaneous seasonable hints 372
Spotted rose foliage 373
How to force sweet peas 373
Mushrooms 373
Forcing bulbs 373
Philadelphia 373
Boston 374
New York 375
St. Louis 375
Chicago 375
Flushing, N. Y. 375
The seed trade 378
News notes 380
St Paul 382
Toronto 384
Baltimore 386

LANCASTER, PA.—The Sheperd collection of chrysanthemums owned by Mr. James Rose was placed on exhibition last week in the Y. M. C. A. building and the public attendance was very large. The exhibition was said to be the best ever made in this city.

BRIDGTON, N. J.—The chrysanthemum show which opened on November 7, was one of the best ever held here and the public took advantage of the opportunity and attended in large numbers. Among the professional exhibitors were Richard Bagg, S. Edwards & Sons, Wm. H. Henderson and others.



THE EXHIBITIONS.

Washington.

The third annual chrysanthemum exhibition of the Washington Florist Club opened at the National Rifles' Armory, which will be remembered as the beautiful and spacious armory in which the S. A. F. held its annual convention in 1892. Promptly at 2 o'clock the doors were opened, the committee on arrangements having completed their work. The lower hall was devoted to plants and bulb display, while the upper was given up to cut flowers mostly.

The exhibition was a credit to the Capital of the Nation. No finer display of nature's handiwork has ever been made in Washington, and the arrangements of the different classes and varieties was exceedingly artistic. To the indefatigable labors of Messrs. Hale and Oliver is largely due the success of the arrangements. For the past ten days they have been doing nothing else than attending to the thousand and one details. They and their associates have every reason to be proud of their success. The exhibit was wonderfully well arranged, demonstrating the wisdom of the club in selecting Mr. Hale as superintendent of exhibits.

The electrical work was confined chiefly to the upper hall, where the cut flowers were staged besides the dinner tables, mantels and groups of decorative plants. Upon entering the hall the scene was quite bewildering on account of the numerous electric lights. The central feature was a pyramid of maidenhair ferns 20 feet in diameter at the base and 16 feet high, studded around at regular intervals with electric lights of different colors. Above this pyramid was a canopy 30 feet wide of white mull, which was delicately sprayed with asparagus and fringed with tiny electric bulbs. Below this and resting on the pyramid was a large revolving cone shaped structure surmounted by two electric stars, each revolving in different directions, showing various colored lights several times during each revolution. Stretching from the canopy in graceful curves to each corner and sides of hall were six immense festoons of Florida smilax and large Japanese lanterns lighted with electricity. The large stage was banked with pandanus, dracænas and other decorative plants. Florida smilax was profusely used throughout both halls.

Among the visitors were many florists from Boston, New York, Philadelphia and Baltimore, and they all expressed surprise and gratification at the beautiful display. They admitted that the Washington show surpassed all they had seen in their own cities this year.

One of the electric light globes hanging near a canopy which had been suspended above the pyramid in the center of the upper hall burst and set fire to a ribbon which helped to support the canopy. The whole decoration fell to the floor, causing a little momentary confusion, but the damage was very small.

CHRYSANTHEMUM PLANTS: Mr. C. F. Hale captured the first prize of $50 for the best 24 specimens, not more than two of a kind, the plants being the handsomest ever exhibited in this city. Clark Bros. were awarded second prize, and their plants gave Hale a hard push for first place. For 12 specimens, not more than two of a kind, first prize of $25 was given to Wm. H. King, Mr. Hale coming in second. These plants were all very fine specimens. For six specimens, distinct varieties, first premium of $25 was easily won by Clark Bros., Mr. Hale coming in second. For best group of chrysanthemum plants in bloom, not less than 50 and not more than six of a kind, Mr. C. F. Hale walked away with first premium of $50, Clark Bros. winning second prize of $20. Among these were to be found the handsomest plants in the show, the competition being very keen and the judges were often at a loss to decide.

CHRYSANTHEMUM CUT BLOOMS: First premiums were awarded to C. F. Hale for 24 blooms on long stems in 12 varieties, 12 blooms on long stems distinct varieties, 24 blooms pink one variety on long stems, 24 blooms yellow one variety on long stems, 24 blooms any other color same conditions, 12 blooms yellow same conditions. To Clark Bros. for 50 blooms with long stems in 25 varieties, 24 blooms white one variety on long stems, 12 blooms pink one variety arranged in vase. To W. H. King for 24 trusses in 12 varieties, 12 blooms white any one variety in vase, 12 blooms any other color same conditions.

ROSES: First premiums were taken by Clark Bros. for American Beauty, La France, Wootton, Kaiserin, and best vase of not less than 50 blooms. By Koenig & Lacey for Perle, Bride, Mermet, Watteville, Meteor and Gontier. By C. F. Hale for white La France.

VIOLETS: First for 500 blooms to W. H. King.

CARNATIONS: First premium to E. Swayne for collection 25 of a kind. To W. H. King for vases of 50 white, red, pink and crimson.

ARRANGEMENTS: Decorated dinner table set for twelve, first premium, $50, Washington Floral Co.; second, $25, A. B. Garden. Basket of cut chrysanthemums, first Washington Floral Co.; second A. B. Garden.

DECORATIVE PLANTS: J. H. Ley first for group of foliage and flowering plants and display of 50 ferns in 12 varieties. Koenig & Lacey took the second on group of plants and J. L. Loose second on ferns.

AMATEURS' PRIZES: Best six chrysanthemum plants in bloom, first prize, $10, J. S. Lewis for seedlings; second, $5, Miss Evelyn Ley (the 8 year old daughter of Mr. J. H. Ley), who takes a great interest in chrysanthemums.

CUPS: The Washington Club silver cup, value $50, to the exhibitor winning the most prizes offered in classes from 1 to 16 inclusive, was won by Mr. C. F. Hale. The silver cup, valued at $25, to the exhibitor winning the most prizes offered in classes from 17 to 47 inclusive was captured by Clark Bros.

SPECIAL PREMIUMS: C. F. Hale won the gold medal for the best 50 cut chrysanthemum blooms in 25 varieties. These fifty blooms would no doubt show up equal with any fifty blooms in the United States; they were simply perfect. The six specimen blooms exhibited for the silver medal by Mr. Hale captured the prize. G. B. Wilson, in this collection, was extra fine in form and substance. Golden Wedding was unusually good. They were without a doubt the handsomest flowers in the show. The silver candelabra set offered for the best 100 blooms, not more than 4 of a kind, was awarded to Mr. C. F. Hale. The silver cup for the best mantel decoration was won by Washington Floral Co. This was a fine piece of work, marantas, ferns, palms and yellow and white "mums" being used. The silver medal for the best vase of cut blooms any color was easily won by Mr. C. F. Hale. The gold medal for the best 6 chrysanthemum plants distinct colors was awarded to Mr. C. F. Hale. He also took the silver cup for the best 6 plants, distinct varieties. The silver tea service for the best 4 specimen plants distinct colors, was won by Clark Bros., as was also the silver water service offered for the best 6 specimen plants, distinct varieties. The ladies' writing desk offered for the best 6 specimen plants distinct varieties was captured by Mr. C. F. Hale, as was also the French plate mirror offered for the best vase of 25 blooms of one color. Clark Bros. walked away with the silver cup for the best three plants distinct varieties. They also very easily captured the handsome carving set for the best vase of 25 blooms any color; this was a very fine collection of handsome flowers of Golden Wedding, E. D. Adams, Frank Thompson, Princess of Chrysanthemums, Mrs. Georgie Cole, Lilian B. Bird, Marvel, President Wm. R. Smith, The Queen, Harry May, Miss Minnie Wanamaker, Cullingfordii; they were all extra fine and artistically arranged in a vase standing four feet high, the flowers having extra long stems and falling well over the vase. The standard banjo for the best four specimens plants any color went to the lucky Hale. He also walked away with the set of silver spoons for six vases of cut flowers, and the set of silver fruit knives for the best three vases of blooms.

NOTES.

Mr. C. F. Hale's vase of chrysanthemum Cullingfordii was the finest of the dark varieties on exhibition; the flowers were probably the largest ever produced of this variety.

Mr. J. R. Freeman had two very handsome vases one filled with Miss Minnie Wanamaker the other with Widener mums, magnificent blooms for which he received certificate of merit. His exhibition of seedling cannas were very fine and also received a certificate of merit. Neither were in competition.

The collection of 16 varieties of carnation exhibited by Ed. Swayne and a like collection by W. H. King deserve special mention. They were excellent flowers and neatly arranged in vases, each variety to itself.

Helen Keller carnation, sent by Mr. J. N. May, received a first-class certificate, being an exceptionally fine flower of the fancy variety. White Rose, Daybreak and Sweetbrier carnation also showed up well being very much admired, they also received first-class certificates.

Koenig and Lacey had a very fine display of adiantums, Cocos Weddeliana, pandanus and asparagus, arranged on a table about 20 feet long, through which they had a fine assortment of roses tastily arranged, including La France, Perle, Bride, Wootton, Meteor and Watteville, which attracted considerable attention.

C. A. Brunger, gardener at the Industrial Home, exhibited a fine lot of well grown pot chrysanthemums.

A. B. Garden had a fine group of palms and ferns at one side of the lower hall, in the center of which stood a minature fac simile of the Washington *Post's* new building. On this floor Koenig & Lacey had their exhibit of decorative plants which captured the second prize. It was a very creditable display for this young, but enterprising firm.

The most artistic display in the entire show was the wedding decoration shown in the rear of the lower hall. The scene was complete in every detail only wanting the couple for whom the nuptual knot was supposed to be tied. The chancel in its entirety was shown. The floor was of selaginella, the altar was composed of orchids and chrysanthemums, the bell was of white carnations. The rails of the chancel were covered with asparagus which was so arranged as to fall gracefully to the floor in striking relief to the rest of the scene; the rails were studded with electric bulbs. The effect of the entire arrangement was charming in the extreme.

Clark Bro's. display of roses was very fine. Their La France, which took first-prize, was beyond a doubt the finest grown in the District of Columbia. Their vase of pink chrysanthemums President Wm. R. Smith was very fine. Its soft pink tint is just what the pale blondes are looking for.

In the upper hall was perhaps the most valuable collection of plants in the exhibition and one which showed superior cultivation. These were exhibited by Mr. J. H. Ley. Mr. Ley is without doubt one of the finest plantsmen in this country. Noticeable among this fine display was several plants of Cupania filicifolia; a Brazilian tree with fern like foliage, excellently well grown and which Mr. Ley says is a fine decorative plant, and will stand considerable rough usage, though hard to propagate. A fine specimen of Latania rotundifolia caught my eye and Croton Rudii with its fine broad leaves richly colored with dark red. This is one of the handsomest crotons I have ever seen. There were also six fine specimens of Latania borbonica aurea, the only golden palm in cultivation, and palms, dracænas, crotons, caladiums and other plants of this class too numerous to mention. All in the lightest state of cultivation.

The club deserves the warmest praise from all Washingtonians for its earnest efforts to make the show this year more of a success than ever before, and it was a grand success in every way, except financially; the club is several hundred dollars out of pocket.

C. LESLIE REYNOLDS.

Springfield, Mass.

The chrysanthemum show of the Hampden County Hort. Society opened the 15th for three days at the new Masonic Hall building. "What a wilderness of beauty" was the exclamation of visitors. A gentleman from New York said, "Why didn't you send these plants to the New York show? there was nothing there to compare." Our plant exhibit was not as large as in former years, but the plants were good and the display of blooms was far better than ever before. A. N. Pierson of Cromwell, Conn., had an elegant display which required some 500 blooms of the most perfect quality. Minnie Wanamaker, Golden Wedding, Kioto, Niveus, President W. R. Smith and A. J. Drexel were especially noticeable. Wm. Nicholson of Framingham had a fine showing of specimen blooms which reminded one of the Boston show, especially his Golden Wedding, Domination and E. G. Hill. Others of extra note were Minnie Wanamaker, Mrs. Lippincott and Mrs. Kimball. Close by was a fine lot of blooms from Wm. N. Craig of Taunton; Mrs. L. C. Madeira, Molyneux, Golden Gate and Viviand-Morel were of excellent quality. One of the most attractive flowers in the hall was his Mrs. Louis Childs Madeira; its round form certainly reminds one of a perfect orange. E. H. Howland of Holyoke filled a table with a great variety of blooms. Pitcher & Manda had their namesake on exhibition, which attracted much attention; they also had a fine showing of the newer sorts, including Black Beauty, Mrs. Bayard Cutting, Defiance, Mrs. W. P. Hennessey and Mrs. F. L. Ames; this last variety was looked upon by some of the experts as of much value. Collis & Tucker of Ware were in it for the first time, this being their first year growing the Queen of Autumn, and they should feel satisfied, for they not only made a good showing, but captured several premiums; they have had the best success as far as size of blooms is concerned with Waban, Golden Wedding, Jessica and Minnie Wanamaker. Mutual Friend, from Mann Bros. of Randolph, was much admired; it is a beautiful clear white, and, judging from its appearance here, a good keeper as well as one that will ship well. Nathan Smith & Son, Adrian, Mich., were represented by ten new seedlings and some fifty varieties of the better old sorts. Their No. 10, Laredo, Ingomar, Harry Balsley, Insolitus and Maud Dean were especially beautiful, while all were of the most perfect form. One would not think that flowers could be sent so far and arrive in such good condition.

Among the plants, F. H. Hatfield, gardener to Walter Hunnewell of Wellesley, had the best specimens in the hall. Louis Boehmer, Wm. Falconer, Mrs. Joseph Rossiter and Cullingfordii were the best ever on exhibition in this city. This was the only lot of plants by a professional gardener; all other exhibits of plants were by amateur growers. Miss M. P. Brewer had a fine showing of bush plants and standards, some fifty plants, nicely grouped; the Misses Taylor, about the



GENERAL VIEW OF THE NEW YORK SHOW FROM THE BALCONY.

same number; and H. C. Hamilton, enough to fill one end of the hall; his standards stood six to eight feet high and formed a good background for the bush plants. F. M. Alden entered a nice little lot of standards and bush plants, then the children contributed the remainder.

Next came roses. A. N. Pierson of Cromwell, Conn., had a beautiful display, taking about ten feet of a six-foot table. Among the newer sorts Testout and Hoste were fine, also his American Beauties. C. F. Fairfield made a fine showing of twelve varieties in front of an elegant bank of palms arranged by the Gale Floral Co. The La France and Meteors in this exhibit are seldom excelled. His Mermets and Brides were also of fine color. J. N. May, Summit, N. J., was represented by the new rose, Mrs. W. C. Whitney. The fragrance of this new variety is beautiful.

Carnations—here there was more competition. Mr. Nicholson of Framingham had a fine showing, including the Nicholson and Ada Byron. What a delightful fragrance this last variety possesses! This alone should make it a valuable sort. The Nicholson is a fine flower of the shade of pink that always sells. E. H. Howland also had a good showing in this department. A. N. Pierson also entered carnations. Unfortunately a fine lot from The Cottage Gardens, Queens, N. Y., arrived late for competition. Among them Lillian Abbe, Storm King, The Stuart and Wm. Scott were extra fine, also Lizzie McGowan. Those who can't grow this sort should take a trip to Queens and see how it is done. Peter Herb, Mt. Healthy, Ohio, sent his new seedling Adelaide Kresken (they must be short of names in Ohio), but this didn't arrive until a day late; but for all that, when it did come it was a beauty, a fine color, much like Sweetbrier, but of larger size. John McGowan's new seedling Fred Cody is a white with pencilings of nearly a purple. Edward Swayne, Kennett Square, Pa., exhibited Ophelia and Sweetbrier, two valuable sorts. In this locality Grace Wilder is a standard color, but as shown here Sweetbrier is much better in form and equal in color.

There were several exhibits of pansies by amateur growers, good for so late in the season. C. R. Miller & Co. had a table devoted to decorative plants and jardinieres; the Gale Floral Co., a table of cut flowers, including fine roses, chrysanthemums and carnations not entered for competition.

The judges were Elfred Wingett and H. P. Wookey of Lenox, Ed. J. Norman of Lee and Geo. H. Thompson of Great Barrington.

Robert Simpson of Cromwell, Conn., was an interested visitor.

The exhibition was a grand success, financially as well as in attendance. To be sure, a good attendance brings the financial part, but seldom does a show take place, except in the larger cities, that attracts so high a grade of exhibits, and this certainly has maintained the reputation of the society. The society's year closes with this show; the annual meeting takes place soon, so that early in December the work will be planned for the coming year. G.

Elmira, N. Y.

Grove P. Rawson's invitation per card for a private view of his Winsor avenue plant brought together a large attendance of society people who were charmed with the unusually fine display of chrysanthemums grown to perfection (even if I, myself, do say it), as well as roses, carnations, violets, palms, ferns and orchids, all in first class condition. It was really an A No. 1 flower show that advertised itself on its own merits, the attendance being doubled and trebled from day to day, proving of great benefit in booming the flower trade.

Some of the notable flowers of great size were Golden Gate, Grove P. Rawson

(as here grown from original stock very fine and much admired for its lovely color and good shape), Good Gracious. By the way, Good Gracious is not synonymous with Princess of Chrysanthemums, as some seem to think; although similar as to color, it is yet distinct in shape and much better habit. The former is preferable; even the Princess would say as to that, Good Gracious. First class blooms of uniform excellence were Viviand Morel, J. C. Vaughan, Wm. Falconer, Mrs. Jerome Jones, Mabel Simpkins, Anna A. Sturges, Martha Duryea, Waban, Mermaid, Roslyn, Florence Davis, Rob't Bottomley, Mrs. D. D. L. Farson, Molly Bawn, Geo. W. Childs, Mrs. Langtry, Col. W. B. Smith, Aug. Swanson, Baronald, Chicago, Pelican, Mrs. Rob't Craig, Sunset, Mrs. E. D. Adams, Ed. Hatch, Tuxedo, Wm. H. Lincoln, L. Canning and hosts of others. The most striking novelty is a golden yellow sport from Canning, identical otherwise with this most useful sort. If it stands the test of another season it will prove a notable variety, entirely distinct from other yellows.

The so-called early French varieties are something of a snare and delusion grown under glass, as almost all of them lack size, substance and finish.

For cutting, Belle Poitevine, white, is a beauty; nothing could be finer in the way of a Chinese incurved. Used as a gentleman's boutonniere or for plateau basket work it is perfection. Another good sort for cutting is Carrie Denny, amber, nicely incurved, early, of graceful appearance, and the color is much liked by the retail trade, as is the reflexed Tuxedo (of a deeper shade and later). Some class Carrie Denny as a weak growing sort; it is simply dwarf, that's all, but holds its head erect, as all good mums for cutting should to be at all useful. Chicago is a nice early cut flower, pearl pink, large, with stiff stems, as is the popular Jos. H. White.

Our best blooms are from June cuttings planted out in solid beds from 4-inch pots August 1 to 15, or grown on in 5-inch pots to single stem. Carefully select the stock you use, or you cannot expect any remarkable flower development. We grow them in the same compost as for roses, giving all the air possible, but with no liquid feeding. I don't believe in it. Growers seem to think a chrysanthemum has the stomach of an ox, but mums *do* get dyspepsia from over feeding, and their faces show it, as does poor humanity.

The new aspirants to public favor must be large, yet shapely, full petaled, not "drooping" easily like Mrs. Langtry or "spotting," as Ada Spaulding, and withal good keeping qualities, together with stiff stems, plenty of foliage and reasonably short stocky growth; no Shanghais need apply as the chrysanthemum of the future. Please give us those that once seen will never be forgotten, at the same time "hold their own" to the end of the chapter.

November is the gala month for rich display of gorgeous coloring, thanks to the chrysanthemum. Growers and retailers at least once a year can afford to keep "open house." Go at it in the right sort of way and results will be satisfactory; customers and friends will enthuse; besides it will boom the flower business. I believe it—I know it.

GROVE P. RAWSON.

Germantown, Pa.

Decidedly the prettiest chrysanthemum show ever held by the Germantown Horticultural Society was opened to the public last evening in the Germantown Cricket Club house at Manheim. A better place could hardly have been selected, the large dancing hall on the second floor being admirably adapted for displaying the plants, while in the galleries above the cut flowers were seen to advantage.

On entering the hall the visitor at once noticed the excellence of the general effect. A beautiful mound of foliage plants in the center dividing the rows of bright colored specimen chrysanthemums. At the sides of the hall were several pretty mantel decorations, while on the stage beyond the orchestra were hidden by a semicircle of the standard chrysanthemums and foliage plants. Many of the plants were finely grown and reflected great credit on the gardeners and florists exhibiting them. Among the collections such old favorites as Puritan, W. H. Lincoln, Lillian B. Bird, Cullingfordii, Miss Minnie Wanamaker and Mrs. Charles Wheeler were in fine form, but every here and there a plant of the newer varieties and seedlings never before shown were noticed. The standards, though few in number, were very good. The seedlings were numerous and some of them of decided merit.

Of the individual exhibits a word of praise is certainly due to Mr. Mathew McCleary, gardener to A. H. Mason, Esq., who, although obliged to raise his plants in a cold frame, captured more prizes than any other exhibitor, showing some fine specimen plants, collections and seedlings. Mr. Walter Cliffe's exhibit was one of the features of the show. The central group of foliage plants referred to before was shown by him, also several smaller groups and a pretty mantel decoration. Mr. Albert Woltemate's mantel decoration was remarkably fine, its effect being much enhanced by the use of a few orchids. To Mr. Woltemate also is largely due the success of the show, as he is chairman of the committee.

Going up stairs into the galleries, the effect is greatly heightened, and many of the visitors spent much of their time here walking among the cut flowers and gazing down at the plants below. "The roses and carnations," to quote Mr. David Cliffe, "are decidedly better than those shown at the Pennsylvania exhibition last week," and this seemed to be the general verdict. It was partly due to more favorable weather perhaps, but mainly because the Germantown and Chestnut Hill growers turned out with a will and did their best. Pre-eminent among them Mr. John Burton stands first with a splendid display of roses and cypripediums, prominent among the former being American Belle. These roses were easily the best shown, but Mr. Burton being a judge would not allow them to compete. Messrs. Thomas Meehan & Son and Thomas Butler showed some good carnation blooms and Mr. Edwin Lonsdale showed some fine chrysanthemum cut blooms, a good pink, named, I think, Eda Prass, and the famous Princeton orange Tuxedo, also a vase of his fine seedling carnation Helen Keller.

Mr. Thomas Cartledge and Secretary Farson agree in praising the beauty of the show and its general freshness. It seems a great pity that we Germantowners do not yet understand how to advertise our shows properly in order to make them a financial as well as an artistic and a horticultural success, but perhaps we will do better another year.

The judges were Messrs. Cartledge, Burton, Bevis and Colflesh.

JOHN WELCH YOUNG.

Hartford, Conn.

The exhibition given by the Hartford County Horticultural Society which opened November 7 was decidedly good, in fact the best the society has given in the six years of its existence. The specimen plants shown by Mr. Geo. W. Atwood were very fine, particularly a beautiful plant of Ivory; this to our way of thinking for shape, foliage, quality and quantity of flowers came near to perfection. The cut flower exhibit was very large and varied. Messrs. John Coombs, Robert Patchet and James Smith, of Hartford, showed a lot of fresh, large, well foliaged flowers that would do credit to any large city. The specimens of Wm. H. Lincoln, Golden Wedding, Niveus, The Queen, Mrs. Libbie Allen and Viviand-Morel were almost perfection. The display of seedling blooms was very creditable, especially a beautiful, broad petaled creamy white grown by John H. Slocombe of New Haven. One of the curiosities was a very double white sort with a cleanly defined yellow border, sent by Pitcher & Manda.

The arrangements for judging were very defective, though improved over former years. Imagine a judge trying to give satisfaction, when the competing classes were scattered all through the hall; it would require a first-class Kodak to keep the impression in your mind of one entry while you were busy hunting up the next, and so on for eight or ten entries in one class.

The Hartford Society is certainly fortunate to have a public spirited member like Mr. A. N. Pierson, of Cromwell, who filled one enormous table with vases of superb flowers, with no possible recompense, but his interest in horticulture and a desire to help the society. Mr. Pierson also contributed a collection of roses that were far beyond the average, particularly a lot of large beautifully colored Wattevilles and Cusins.

V.

New Bedford, Mass.

The chrysanthemum exhibition of the New Bedford Gardeners' and Florists' Club opened on Monday, November 13, in City Hall. The interior of the hall presented a fine appearance, being draped with flags and bunting. The growing plants were arranged in classes on the floor of the hall, and the committee deserve great credit for the management of the affair. The show was a fine one in every respect. Never before have the gardeners exerted themselves to please the public and do credit to the club as on this occasion. Everything was arranged and the committee through with their awards by 2 o'clock, in time for the opening at 3 p. m.

Among some of the most notable awards we may mention the one for the silver cup, which was won by John D. Runey. This cup has to be won by the same party for two years in order to retain it; for the three years it has come to the same man but once.

For the best 12 distinct varieties in 12-inch pots the first prize went to Fred Puckering. For group of chrysanthemums 40 feet square, first to Fred Puckering. For the best six pots of violets (which by the way were very fine), first prize James W. Riley. For the best group of orchids, first prize to Peter Murry; there were some hundred other prizes awarded.

The committee were under great obligations to Mr. Taber, the treasurer of the club, who was indefatigable in his



A CORNER AT THE NEW YORK SHOW.

endeavors to make the time pass very pleasantly, and certainly the committee fully appreciated his many acts of kindness.

New Haven, Conn.

The New Haven show opened November 8, but there being no premium list and no attempt at competition, there had been no special effort among the growers to distinguish themselves. The number of plants shown was quite large, but nothing noticeable in the way of specimens. The best plants were sent by Mayor Sargent's gardener and were really fine. Other exhibitors were the gardeners of Mrs. F. B. Dexter, Mrs. O. F. Winchester, Prof. Salisbury, Miss Hillhouse and Mrs. J. A. Sperry. Among the florists who sent either plants or flowers were John H. Slocombe, R. McKenzie, Archibald Veitch, John N. Champion, Mrs. R. Arnold and Robert Veitch & Son.

As the object of the show was simply to raise money for local charities and the receipts were quite large, it doubtless was more satisfactory to the managers than a first-class chrysanthemum exhibition would have been. V.

Wayne, Pa.

The second annual chrysanthemum show of the Wayne Horticultural Society was held at the Wayne Opera House November 1, 2 and 3. The stage, chandeliers and walls of the hall were beautifully decorated with oak and laurel and large groups of specimen plants from the Wootton Conservatories of Mr. Geo. W. Childs were effectively used to beautify the hall. The exhibits of chrysanthemums from Gordon Smirl, H. G. Standen, Christopher Fallon, John Curwen and others were quite extensive and secured many of the premiums. Edwin Lonsdale of Chestnut Hill was among the chrysanthemum exhibitors with several choice varieties and also showed a fine vase of the new carnation Helen Keller. In addition to the magnificent foliage plants and palms contributed by John M. Hughes, the well known gardener at Wootton, there were also some fine specimens from John G. Gardner. Mr. Gardner also acted as superintendent of the exhibition. The judges were Messrs. H. F. Michell, Thos. Cartledge and W. Warner Harper. On Thursday evening an interesting feature was a dinner table decoration by Mr. H. H. Battles. White chrysanthemums, orchids and Farleyense ferns were used. The flowers were arranged in a tall glass in the center of the table, but in such a way as not to obstruct the view across. Late in the evening Mr. Battles changed the decoration to that of a breakfast table, in which American Belle roses and ferns were the principal flowers used.

San Francisco.

On account of there being no flower show in San Francisco this fall one was given by the Santa Clara Floral Society at San Jose, October 25 to 28. The hall was tastefully decorated with palms, evergreens, lanterns, etc., and the prizes were in the forms of diamond pins, rings, etc. The chief attraction was the grand display of chrysanthemums by Mr. M. Lynch, of the Menlo Park Nurseries. His display was conceded by a great many to be the grandest ever seen in California. He had cut blooms of Viviand-Morel over 12 inches in diameter, and his Golden Wedding were also from 11 to 13 inches across. A set of twelve seedlings was also a great attraction. His cut blooms of "The World," a grand new white, captivated the hall. His other cut flowers were equally as fine. Great credit is due these two gentlemen for their efforts to make the show a success. It will go down on the society's books as being one of the most successful shows on record.

THE WANDERER.

Brooklyn, N. Y.

The opening of the annual chrysanthemum exhibition of the Linnean Club at the Opera House in Jamaica, on November 8, was quite an event in Jamaica society. The exhibition was successful in every way and far superior to that of last fall. J. L. Childs, J. Wachtell, Wm. W. Walter and other professionals contributed liberally, and there was also a lively competition between amateur growers and exhibitors of flowers and plants, dried grasses, winter bouquets, etc.

Private chrysanthemum shows have been as thick as flies in this neighborhood and it would take a volume to describe them all. J. Condon, opposite the entrance to Greenwood Cemetery, always has a big display. This year the chrysanthemums occupy the greater part of eight greenhouses, and many of the most popular varieties were to be seen in first rate shape. Another extensive display was made at the greenhouses of Richard

Shannon, of Brooklyn. It was attended by a large number of visitors and was a success in every respect.

Mrs. Jahn, the wife of August Jahn, the well known florist on Broadway, died on November 10, after a long and painful illness. Mrs. Jahn was greatly beloved by her neighbors and friends for her many social and domestic virtues, and widespread sympathy will be extended to Mr. Jahn in his great affliction.

Charles E. Applegate has a very fine exhibition of chrysanthemums in honor of the opening of his new store on Putman avenue. It has been attended by a large number of visitors, including many prominent society people.

Oshkosh, Wis.

The fourth annual chrysanthemum show of the Oshkosh Florist Club opened in this city November 14th, in the Opera House. The display in all classes ranked higher than at any of the former shows. The improvement in groups of palms and ornamental plants was especially noticeable.

In chrysanthemums, the specimen plants in large pots shown by James Lewis, gardener to Senator Sawyer, were very good, although somewhat taller in growth than in ideal specimen plants of this class; in flowers and foliage, however, they were above criticism.

For large specimen plants in distinct varieties and in separate colors Mr. James Lewis was easily first in the five largest classes, while Isaac Miles took second in the same. Mr. John Nelson was first on 25 single specimens in 5-inch pots, his flowers scaling sixty points higher than any competitor.

In cut blooms Mr. James Lewis was first with 50 grand specimens in 25 kinds. Mr. Lewis also took first for vases of white, yellow, pink and bronze, 12 flowers of each; while John Nelson took second in each of these classes, except bronze, in which Isaac Miles received the premium.

In ornamental plants, (professional) palms and ferns, James Lewis received first, John Nelson second, Isaac Miles 3rd.

For group foliage plants John Nelson was first with a fine group in great variety. James Lewis was second, Isaac Miles third.

Begonias—James Lewis first, Isaac Miles second.

For best palms and ferns, six of each, James Lewis received first, John Nelson second.

John Nelson received first for a very neat collection of orchids in bloom.

Short Single Stem Chrysanthemum.

Mr. Frank Holznagle of Highland Park, Detroit, Mich., sends us a single stem plant of Lincoln bearing a fine large bloom and with a stem measuring only 13 inches from soil to flower. In his note he asks, "Why do they come so short?" We fear that Frank is asking questions for amusement. He knows perfectly well that the plant is grown from a very late struck cutting on which the flower bud had already begun to form and which of course checked any further growth of stem. This method of securing neat, short stemmed pot plants was fully described in the FLORIST several years ago.

Chrysanthemums from Elmira.

A box of chrysanthemums received last week from Mr. Grove P. Rawson, Elmira, N. Y., proved that there the Queen of Autumn was still on deck. The collection consisted of mid-season or late varieties, all specimen blooms.

If we could get Lilian B. Bird in quantity, in just the condition of the flowers sent here, there could be no complaints of it as a commercial bloom. It was strong in the neck, just droop enough for grace, foliage fine, and flower six inches across. The color is just the pink that women admire; it is certainly a grand variety when well done.

Violet Rose is a fine flower, and at times the color is good, but the suspicion of lividness is always a defect, and at times a positive disfigurement. Mistletoe is too faded in color to be serviceable, and Mrs. Irving Clark, though fine for exhibitions, is not a satisfactory market flower; the color is against it.

In yellows Mr. Rawson sent us some fine blooms, which would be admired at any exhibition. Mrs. T. C. Price, with its shock-head of golden yellow, is excellent, and Tuxedo is still a good amber though likely to be excelled by later introductions. Grove P. Rawson is a well-shaped flower of good size, with good stalk and foliage, and it is certain that our friend, the original of the name, grows it better than anyone else. The great defect is that the color is not bright enough. It has been noted more than ever this year that in the Chicago market undecided colors won't sell at any price; bright yellows and bright pinks are wanted—pale nankin, chrome, dull amber, bronze, crimson, amaranth or lilac pink are all valueless. It is often the case that flowers unsalable in the wholesale market may be sold by a grower with a local trade, but in the main the big trade centers show the prevailing taste. Sunset, handsome enough in a collection, Alcazar, too dull to be pleasing, Brilliant, large and shapely, but dull in color, all belong to this class. Mention must be made of Mr. Rawson's Domination, Jessica, and Snowball (syn. Mrs. S. Humphreys). They are a trio of very beautiful whites, fine for commercial purposes, and the flowers sent us were extra fine in quality.

Review of Varieties.

Among those in attendance at the World's Fair Chrysanthemum Show was Mr. Elmer D. Smith, of Adrian, Mich., secretary of the National Chrysanthemum Society of America. Though a young man Mr. Smith has made his mark as a chrysanthemum grower, and ranks high among the authorities on this flower.

We give below the result of an interview with this gentleman which will, we believe, be of much interest to our readers. Before giving his opinions on varieties he emphasized the fact that his opinions were formed from his own individual experience only and that it varied some from that of other growers, the differences being probably due to variations in soil and conditions.

WHITES.

Ivory. Still at the top. Dwarf in growth, good stem, flower large with good substance. A good all round variety, for either pot plant or cut bloom. Second early.

The Queen. Grand both as pot plant and for cut blooms so far as we can see now. Flower is not full to the center, but when well grown the center is covered by the incurving petals, very large. Good stem, good foliage and good grower. Plant medium height. Midseason. Good for both exhibition and commercial use.

Niveus. Good exhibition flower. Has substance enough and is a good enough grower to be a good commercial sort, but the peculiar reflexed form of the outer petals makes it a rather unsatisfactory shipper. Where flowers are to be used by the grower, and not shippeed, it is an excellent sort. A little later than midseason.

Miss Minnie Wanamaker. Fine both for exhibition and cut flowers. One of the best.

Mrs. Jerome Jones. Very white, incurved, good size and a high built flower, but should be thoroughly developed before being cut. If flower is cut before it is fully ripe it will wilt very quickly. The foliage covers the stem right up to the flower, which is a strong point in its favor.

Joseph H. White. Remarkable for substance of the flower and consequent long keeping qualities. The flower is not the largest but is of fine form, a perfect ball when fully developed, and the stem and growth are both good. Second early.

Mrs. Robert Craig. One of the largest of the incurved type, pure white, of good substance, good stem and growth. Midseason.

Goguac. A sport from Mrs. Irving Clark and identical with that variety except in color. It is more desirable for exhibition than for commercial use. Midseason.

Domination. Still very desirable.

Jessica. Consider Domination better as latter has no disk.

Beacon. Good for exhibition only.

Belle Hickey. Lots of better ones.

The Bride. Many that are better.

Christmas Eve. Very late, which is its only merit.

Diana. Still grown by some for early, but there are lots of better ones that are just as early.

Flora Hill. Fine when well done, but hard to grow.

Harvest Queen. A few days earlier than Ivory, but its earliness is its only good quality.

Miss Anna Hartshorn. Stem too weak.

Mrs. Alpheus Hardy. Beautiful when well done, but few growers can manage it. Not much value commercially anyway as stem too weak.

Snowball (Syn. Mrs. S. Humphreys). Small but sometimes desirable on account of lateness.

Mrs. Gov. Fifer. Good substance but shows too much of the center.

Mrs. E. D. Adams. Good as a single stem plant but poor substance. No good commercially.

PINKS.

Harry Balsley. Delicate color, good growth and stem. A very tall grower which is only objection commercially. A very beautiful flower.

Viviand-Morel. Large and good all round except that flower is apt to be injured in shipping unless unusual care is observed.

John H. Taylor. Early. Short jointed in growth, good stem, flower large with a high center, and stem clothed with foliage right up to the flower. Excellent.

Mermaid. Good, but all growers can't get it first class.

V. H. Hallock. Same defect as above.

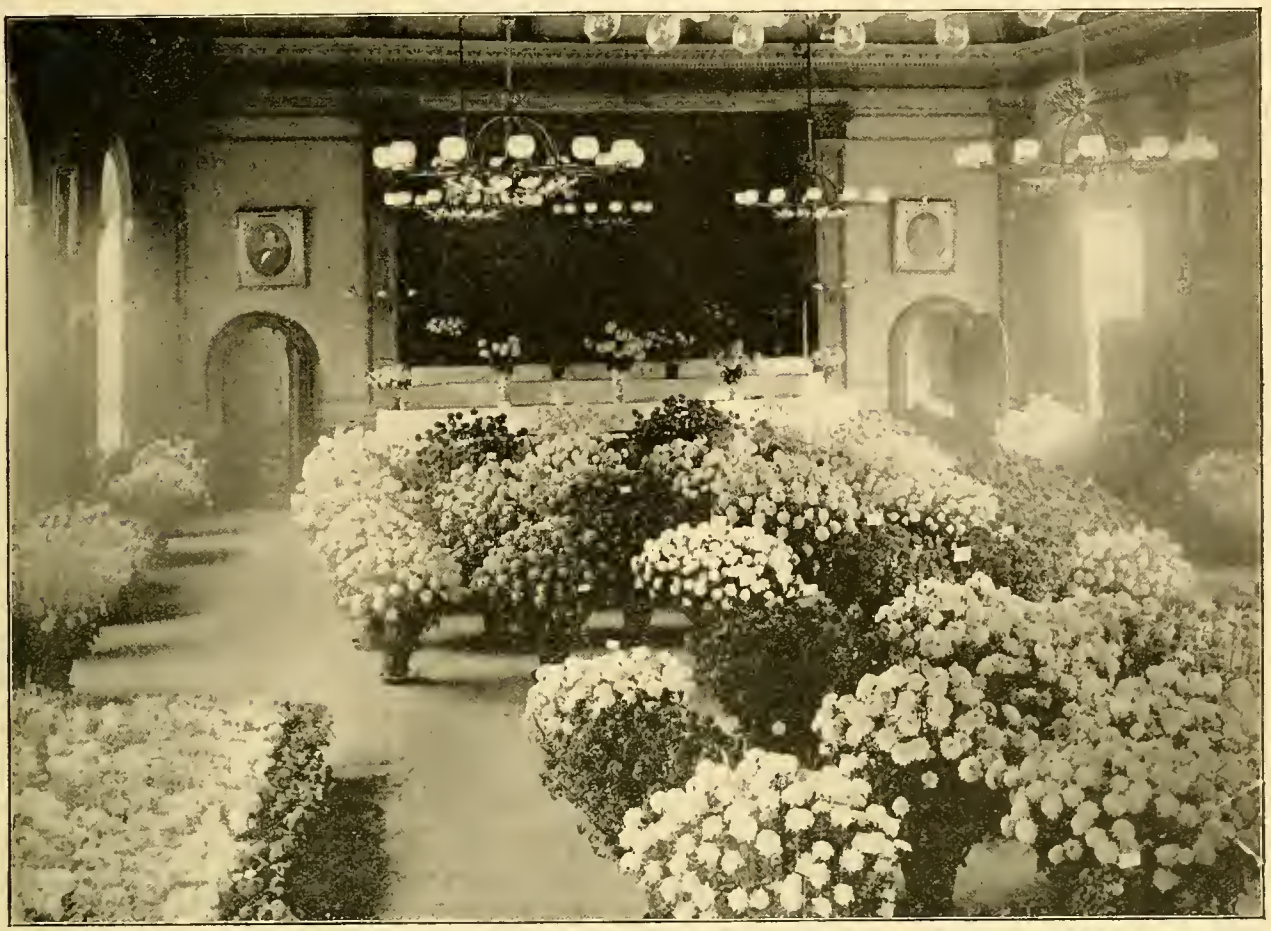
Waban. Would be good for exhibition if it had substance which it lacks sadly.

Ed. Hatch. Pink when grown cool and white when forced. Good for exhibition when grown cool.

Lillian Russell. Stem too weak.

Mrs. Morrison. Poor color.

Olga. Large, and has many good traits, but superseded by newer sorts.



SPECIMEN PLANTS AT THE BOSTON CHRYSANTHEMUM SHOW.

Mrs. Irving Clark. Has good constitution and foliage, but too much magenta in the color.

Mrs. Frank Thompson. Sometimes useful as an exhibition sort.

Mrs. J. N. Gerard. Good early pink in some localities, but not generally liked.

Eda Prass. Probably one of the best for pot plants. Good as Ivory in this respect.

Excellent. Fine when well done, but apt to come poor color.

Aristine Anderson. Weak stem.

Ada Soaulding. Pink when grown cool, but nearly white when forced. Useful for exhibition only.

Princess of Chrysanthemums. Very light pink, almost white. Good only for exhibition.

YELLOWS.

Harry E. Widener. As grown by experts this is probably the best yellow up to date, but under average culture W. H. Lincoln gives better results.

W. H. Lincoln. This cannot be done so finely as Widener, but where unable to give the highest culture it is more satisfactory. Good Lincolns can be produced with much less effort than fair Wideners.

Mrs. Craig Lippincott. This is apparently the best of the new yellows. The growth is strong, foliage large and flower a very bright yellow. A very promising variety.

Mrs. J. G. Whilldin. A good early yellow.

Golden Wedding. Every plant we had of this variety was infested by a new insect pest that we were unable to successfully combat. The leaves curled inward and as a secondary effect from the devastations of the insect the stem and under surface of the leaves became covered with a rust. The flowers did not open and were practically all bull-heads. Have heard similar complaints from other growers. Some blooms of this variety were, however, exhibited at the World's Fair show with foliage free from the pest noted.

Dr. Callandreau. A very light shade. Good form and petals very gracefully disposed. Good stem and foliage.

Emma Hitzeroth. Much like Widener, only lighter in shade and a better grower.

Kioto. Good only for exhibition on account of peculiar form.

Gloriosum. Superseded by Whilldin as an early yellow.

Dr. Covert. Good, but hard to grow.

Maria Simpson. Some beautiful flowers are shown at exhibitions, but have never been able to grow it good myself.

E. G. Hill. There are many better, and the same may be said of Mrs. Frank Clinton and Gorgeous.

Eldorado. Too weak a grower.

H. Cannell. Similar to Kioto, but better stem.

BRIGHT CRIMSONS.

George W. Childs. Probably the best crimson we have to-day.

Joey Hill. A novelty not yet fully tried, but promising. It is later than Childs and the flower is larger.

Cullingfordii. Still one of the best of its color.

O. P. Bassett. Very few growers are able to get it good. It has an inclination to go blind.

MISCELLANEOUS.

Few of these odd shades are useful except for variety in exhibition collections.

C. B. Whitnall. Velvety maroon. Incurved. Dwarf, good stem and foliage.

Harry May. Bronze. Good.

Miss Helyett. Maroon. Good.

Hicks Arnold. Brouze. Second early. Good.

Marguerite Jeffords. Bronze. Good.

J. C. Vaughan. Plum crimson. Would be fine if full double.

Louis Boehmer. Poor color.

Referring to the packing and shipping of chrysanthemum flowers, Mr. Smith said that he found it very difficult to pack the reflexed type of flower so that it would arrive in best condition. The incurved flowers can be readily drawn together and tied up in tissue paper so they will carry in perfect order, but this is not so with flowers with reflexed petals. Hence few of the reflexed flowers take a high position as good shippers and this quality is essential in a flower that is to be shipped to market.

A curious wrinkle in culture noted by Mr. Smith is that with him Harry Balsley does not incurve as it does with other growers.

MINNEAPOLIS, MINN.—In the absence of a regular club exhibition in this city this year Messrs. E. Nagel & Co. made a special display of chrysanthemums at their store on Nicollet avenue November 11 to 18.



Carnation Notes.

I have just come in from disbudding a hundred foot house, in which the plants are all on solid beds, and my back is protesting vigorously against solid beds and in favor of benches where one can stand upright to do the work.

It is yet an open question with me whether disbudding pays; there is of course an improvement in both the stem and the flower when disbudding is practiced, but it is so slight that it hardly pays for the time and labor expended. It is quite a job to go over a house of carnations and disbud it properly, for the buds should be taken off as soon as they are visible. It is of very little account to take them off if you wait until they are a size that would make them convenient to pinch. Unless I am very much mistaken there should be a difference in the price between disbudded ones and those that are not of about fifty cents per 100, and it will be pretty hard to get the extra fifty.

There are some varieties in which it pays well to take out the terminal bud and leave the side buds to open up. Where the side buds are near enough one size to open within a day of each other you can obtain a very good spray by practicing this. Golden Triumph is the only variety I know of that can be worked in this way to good advantage, but there are no doubt some others that will make equally as good sprays. The terminal bud should be taken out while quite small and the plants must be strong and healthy with plenty of good feed either in the shape of liquid manure or a good commercial fertilizer to get these sprays to produce flowers of good size.

Now is a good time to apply a little extra feed to your plants. Where commercial fertilizers have been tried and found effective they are a good thing to use, but in my experience I can not use anything but the pure bone (ground, not powdered). This put on about the 20th of this month always gives me an increase of bloom for Christmas and quite an increase in the quality of that bloom. Pure bone is also much better for the health of the plant than either liquid manure or a quick acting fertilizer, as either of the latter are apt to produce that quick soft growth which is very poor material to propagate from.

Right here may be a proper place to say that in my opinion growing carnations for bloom and propagating them for plants should be two separate and distinct affairs. Where you attempt the two things from the same plants one or the other is going to suffer. There is no question but that the bloom can be increased almost 50% in quality by very high culture, neither is there any question but that this high culture is injurious to the health of the plant as a propagator and if continued for a few generations will produce a very sickly lot of carnations subject to every disease in the carnation family. On the other hand if you grow your plants so as to produce good healthy cuttings the flowers are going to suffer and you will have to compete with the medium grade of bloom, and competition is very lively in that grade. It is in this as in every other business, the best pays the best and that is what we should try to grow, and in trying we will certainly raise the standard of the carnation a little nearer where it should be.

A. M. HERR.

Carnations at the New York Show.

The display of carnations was unusually fine, showing a great improvement in the cultivation of this popular flower. Varieties which a few years ago were considered very good, are now out of the race. Lizzie McGowan as shown by the Cottage Gardens, C. H. Allen and F. A. Storm were very large and on long, strong stems, many of the blooms measuring three inches in diameter. Edna Craig, shown by Dailledouze Bros., was the favorite with the judges in the pink class and received first; Daybreak was second. This class was the best represented, there being eight entries. Wm. Scott, the new pink sort, will certainly take the place of Grace Wilder, as the color is very similar and does not become streaked; it is also larger and the stems are much longer. F. A. Storm entered a vase of Buttercup, which were something extra, being very large and of excellent color. There were three entries in the class for collections, The Cottage Gardens taking first premium with a very fine display consisting of Edna Craig, Albertini, Wm. Scott, Buttercup, The Stuart, Lilian Abbe and thirteen other varieties; F. A. Storm took second. The Cottage Gardens received a certificate of merit for a new seedling, Storm King, a very large white, of good form, strong stem.

The display on Thursday was even finer than that of Monday. The white varieties were larger and better every way. The pink sorts fairly outclassed the previous exhibit. Wm. Nicholson of Framingham, Mass., took first premium with a new sort called Nicholson; Dailledouze Bros., second, with Edna Craig. T. Jensen took first with Lady Emma, and F. A. Storm second with Portia. The Stuart, a seedling raised by Fred Dorner and exhibited by The Cottage Gardens on Monday, attracted much attention for its excellent color, form and texture, being a good keeper, very rich scarlet and nearly one-third larger than Lady Emma. As pink is the favorite color this season, the growers present at the show were anxious to procure the opinions of the commission dealer as to which sort would sell the best. We fully believe that the honors lay about even between Edna Craig, Daybreak, Wm. Scott and Albertini. They are quite distinct and will not conflict one with the other, and should be grown by every florist. Lizzie McGowan for white is the standard sort in this locality. Buttercup has no rival yet in the market for yellow. The Stuart (if it proves a good cropper) will succeed Portia and all other scarlets. C.

Watering and Feeding.

Being a close observer of all reading matter concerning carnation culture, in the controversy between between Mr. A. M. Herr and Mr. Storm I decidedly take sides with Mr. Herr, and I think I understand him well in regard to not watering until the soil is dry. When the upper side is getting light in color you will find that the bottom soil in the bench is in a condition which we may call crisp; it will not stick together when pressed, nor crumble. This I find the right condition for watering. The more varied and the quicker the changes are in the soil the more activity the plant will show. In the matter of feeding it is not how much fertilizer and liquid manure we are able to put on, but how much the plant is able to digest. Mr. Storm says that you don't wait until you are about starved before you eat. I can say with safety that two-thirds of the people are sick from over-eating, putting more food in the stomach than the system is able to make use of. As the principal substance we live on is pure sweet air it is surprising how little food we need if it is well digested.

Amityville, N. Y. CHAS. LEUKER.

Miscellaneous Seasonable Hints.

Lilium lancifolium rubrum, roseum and album have arrived and should not be allowed to remain out of the soil but a short time. These beautiful lilies are not needed before next summer and must be brought along as slowly as possible. Pot three bulbs in a 7-inch pot, or one in a 5-inch pot, in good loam without any fresh manure in it and don't water them until they have made an inch or so of growth. I place them under a bench in the coolest house I have and cover the soil with an inch of sphagnum; place them where they are not liable to get much drip. They will remain dormant for a good many weeks, and that is what you want. As they make a growth of a few inches you will have to give them the light in a cool house. They are very useful in the early summer months after longiflorum and candidum are gone.

The callas that were shaken out and started growing in September in 5-inch pots will now need a shift if the best results are desired, and give them a light warm house. If you don't have the pots at hand, another plan which will save labor is to plant the callas on the bench where you have grown a bench of chrysanthemums. Let the soil dry out sufficiently to work well, then add a good dressing of decayed manure and plant the callas not too thick. When clearing off your old chrysanthemum benches, don't leave the four, five or six inches of soil in the benches. The plants you stand on the soil do not do half so well as those on half an inch of sand or ashes, and the soil, however good it may be, is converted into such a miserable mechanical state that it is useless until it has had a winter outside. Go to the trouble of taking it out and make a good pile of it. It is sure to be useful in the spring.

Your Christmas crop of paper white narcissus should now be in a light house and showing bud. They won't be any more than in full bloom at the holidays, and they pay then. Keep them about 55° at night, but give plenty of daylight. Don't try to force any tulips or Von Sion yet; it will only result in failure.

Put a few azaleas into a rose house temperature and keep syringed, and you can have them in flower by Christmas. Deutsche Perle is much the best for this purpose. Madame Van der Cruysen will come on a little later. A handsome small azalea sells well at the holidays.

Don't let the propagating bed be idle now. Among other things, keep on putting in cuttings of that fine foliage plant, acalypha. You are not likely to get up too large a stock of it, as you cannot increase it like a coleus; but it is a far better plant, particularly for veranda boxes, etc.

I have grown several hundred useful market size chrysanthemum plants this year, that is, grown them on the bench during the summer and lifted and potted them about September 1. They have

done well and sold well. No one who has tried this plan would ever fuss with them the whole summer in pots. And if confined to a small pot, say a 5 or 6-inch, it would be impossible to keep the leaves on, as these bench grown plants have done. But many fine chrysanthemums are not adapted to this purpose. They must be compact in growth and free flowering. Before you discard some old varieties, here is a list that with me have made fine pot plants without any special care. Ivory, Mrs. Whilldin, Ada Spaulding, Cullingfordii, G. W. Childs, Wm. Falconer, Eda Prass, Etoile de Lyon, Bayard Cutting, W. H. Lincoln, L. Canning, Minnie Wanamaker, Mrs. Drexel, Mermaid and V. H. Hallock. Many more could perhaps be added to the list, but I only speak from experience, and of all the above Ivory (white) and Whilldin (yellow) are ideal pot plants.

Easter is so very early (March 25) it is well to get your Bermuda lilies inside and growing as soon as you can make room for them. They are very unlikely to be too early. WM. SCOTT.

Spotted Rose Foliage.

The rose leaf sent by your correspondent, dated St. Cloud, Minn., is covered with small black spots caused by using green manure, or in other words it is a concentration of ammonia which is attracted by the succulent nature of the leaf and settles in small spots. It will do no harm if the houses have plenty of air on at all times and are not allowed to get too warm, till the strong ammonia has somewhat died away. Great care must be taken to give plenty of air in the houses at all times, as the foliage will burn if the houses are too hot. The great trouble in using green manure is that to some amount, particularly if the plants are not in active growing condition, the roots are affected by it and suffer a certain check which, though it does not seem perceptible to a casual observer, will affect the growth of the plant materially. I would advise your correspondent to hold his plants slightly on the dry side as well as giving plenty of air at all times till the ammonia gets more and better assimilated and until the soil and the atmosphere of the house gets purer.

JOHN N. MAY.

How to Force Sweet Peas.

Ten years ago there were very few sweet peas grown for the cut flower market of Philadelphia even in summer time. Now they come in—figuratively speaking—by the bushel especially in the early spring months. They are principally the product of the carnation specialists, as a secondary crop.

It is now four or five years ago since the writer of this began to experiment with sweet peas, with the object in view of inducing them to produce their dainty blossoms in winter time. It was August 1889, that I ventured to plant some seed in 6-inch pots. They germinated freely, and grew quite satisfactorily, but it was not until February, 1890, that an opportunity offered to give these plants a decent trial. Some La France roses were not doing well, so they were thrown out and the sweet peas were transferred from the 6-inch pots to the table until recently occupied by the roses. The sweet pea plants however, had become somewhat entangled, and in the separation some of the vines became bruised, which in a very few days became evident as they died. The first flowers were cut early in March, but the stems were rather short, so much so that I was not quite satisfied with the experiment. However, four dollars per hundred was readily paid for them. The following year the seed was planted directly in the boxes, in which they were intended to flower, and the results were very satisfactory.

They require an abundance of water when in free growth; a little liquid manure is very helpful. They seem to do a great deal better under glass in this part of the country (Philadelphia) than they do outdoors. The insidious red spider is their worst enemy, and a free use of water forcibly applied on the affected parts of the plant on bright mornings will help to keep this little rascal in check.

Carnation growers meet with good success with sweet peas by planting them at intervals among the carnation plants. They require plenty of headroom, as they will grow from eight to ten feet high during the season.

It is not too late yet to plant a few seeds, about six feet apart along the center of a span roofed carnation house; with the aid of a stout cord or some twiggy brush they will make very rapid progress in a congenial situation. An idea which I have often threatened in my mind to put into operation is to grow a few specimens in pots, twelve or fourteen inches in diameter. What a novelty at a spring exhibition or in a roomy conservatory they would be.

Seeds could be sown directly in the pots in light, rich, and porous soil. When well developed the plants should be thinned to three or not more than four of the strongest of them. The sweet pea plant has a wonderful power for what is known as *stooling*; that is to say a great number of shoots are produced from one seed.

If convenient a shapely twiggy young birch tree six or eight feet high should be planted in the center of the pot. What a magnificent display such well grown specimens would make when full of their charming flowers! It is not too late to make the attempt yet. For the later the seed is planted within reason the earlier they bloom in proportion to the time between the planting and flowering periods.

One thing must be borne in mind and that is not to defer placing the brush for the plants to climb upon any longer than can possibly be helped. They grow faster when the support is at hand, and the danger attending the disentangling of the young plants is removed.

Sweet peas will live out all winter in favored spots in the vicinity of Philadelphia. That is to say if they are planted early enough, so as to get good root hold before severe weather sets in.

EDWIN LONSDALE.

Mushrooms.

We are trying to raise some mushrooms and have followed directions sent us, but they omit stating whether to remove the straw they are covered with when they begin to come up or to let it remain on then. Please give us instruction on this point. It might help others as well as ourselves. OLDHAM BROS.

Cuba, N. Y.

You don't tell us anything about the conditions under which your mushrooms are being grown, nor what are the "directions" which you have followed, hence we can not give you as explicit an answer as we should like to. Anyway, if your beds are indoors, by all means remove the straw as soon as the young mushrooms begin to appear above ground, and don't put it on again. It is a good plan to cover the beds with straw when they are moulded over, letting the straw stay on till bearing time; this helps in retaining warmth in the beds, prevents them from becoming dry on the surface and does away with any need of watering during the non-bearing period. W. F.

Forcing Bulbs.

In forcing Dutch bulbs and lilies how many weeks should it be from the day they are brought in from outside till the flowers are salable?

Also how long should lily of the valley require? F. B.

Most Dutch bulbs require from three to four weeks from the time they are brought indoors until they are in salable condition, the early lots requiring a few days longer than those that are brought in after Christmas.

Lily of the valley usually needs from twenty-one to twenty-five days to get it in good condition before the holidays, but later in the season can be nicely finished in nineteen to twenty-one days.

W. H. T.

Philadelphia.

Chrysanthemums are still the leading flowers in our market and are likely to last until Thanksgiving day, which festive occasion generally makes the largest inroads into their ranks, and save a few choice late varieties, they are then heard of no more until another season. We believe that this is one reason that Thanksgiving day is so popular with some of the craft, as after six weeks of "cuss" words and other things that are said about the "weeds" but all to no purpose, they can go to church and offer thanks that their hated enemy is no more and their field is clear for another eleven months.

We believe that this cry about the chrysanthemum hurting the sale of other flowers at this season is not warranted by fact. There are more American Beauties on the market this year than ever before, yet there is a good demand for them, in fact, these and the American Belle are the best selling flowers of the day. At the same time good chrysanthemums are in demand; fine blooms of Minnie Wanamaker, Widener, Lincoln, and other choice varieties, sell well, in many cases they make their own market and are sold to people who though not expecting to buy flowers could not resist their beauty.

There is very seldom a glut of choice flowers, it is the inferior stock and the rubbish that causes the trouble; drop 25 to 33 per cent. of the output, make up the difference in quality, and all will be returned sold at satisfactory prices.

Violets are improving slowly; if some of the growers that send to the Philadelphia market would take a day off and come to town they would learn something to their advantage, for not one in five know when to pick violets or how to tie them up. It is of the utmost importance that violets should reach the consumer as soon after they are picked as possible; their fragrance is fifty points; if they are picked when half open they are like green fruit and have no fragrance, besides being only half as large and the color lacking. If picked in the morning they should reach the consumer so that he can offer them for sale the same day. If gathered in the afternoon the stems should be put in water over night; at no time should the flowers be allowed to get

wet. A great deal of care should be taken in bunching so that every flower should show with plenty of leaves around to keep them in place; they don't want to be tied very tight like a ball, but arranged so as to make as large a bunch as possible; don't use wire unless very light copper or brass; fine green thread is best, and fifty flowers to a bunch is better than twenty-five. We have seen so many violets made unmarketable, first, by being picked when only half open, or very badly bunched with leaves and flowers mixed together, or with very short stems, or tied up with a piece of No. 23 wire which had cut into the stems and had rusted, or tied up as if they were to be sold to children to play ball with, or packed helter skelter in a box after the flowers had been thoroughly soaked with water. It seems a pity that men should give their time and greenhouses to raising flowers and then pay so little attention to getting them ready for market, for there should be nothing left undone to present them in the best possible and most salable condition.

The chrysanthemum supper was not held this year, the first omission since the chrysanthemum show was inaugurated years ago. This year's exhibition while it has been a great success has lacked the presence of several gentlemen closely identified with it in former years. Edwin Lonsdale and Robert Craig were both absent at the Chicago show and will no doubt be sorry when they hear what they have missed. But that they did not miss the supper will be some satisfaction to them. Those famous songs, Annie Laurie, and The Brave old Duke of York, are as necessary to an occasion of this kind as fried oysters on the bill of fare and they will be heard later on in the season.

The National Chrysanthemum Society of America was to have met here during the week of the show, but did not materialize. The mums seem to be very well able to take care of themselves; however, if the society should work together as the members work individually, we have no doubt in the light of the advances seen this year that some of the varieties will soon be large enough to be used as umbrellas.

The weather has become decidedly cooler and several mornings the past week ice half an inch thick was to be seen, while the thermometer registers some 6 to 8 degrees of frost; there was also a slight fall of snow.

Keeping the mums back to get a better market has the effect of weakening the stems and many otherwise fine flowers are often spoiled in this way. A chrysanthemum that will not hold its head up is hard to sell and generally has to go at a low figure. The varieties in the market now are Kioto, Widener, Lincoln, Eva Hoyt and a few Whilldin in yellows. M. Wanamaker is the only good white, although there are some fair Canning, and still a few Ivory, Mermaid, Maud Dean and M. Freeman in pink about wind up the assortment. The prices are down, $12 to $16 per hundred being asked for the very best, but really good stock can be obtained at from $8 to $10.

Roses are improving. Mermets and Bridesmaids are looming up, while some growers have La France in fine shape. Kaiserin is increasing in size of flower and length of stem, and the same can be said of Meteor. Medium stock of these varieties brings $3 to $4, while the extra fine command $6 per hundred. Perles, Cusins, Wattevilles and Hostes are plentiful at $2. Beauties and Belles are quite plentiful and good; they range from $1.50 to $2 per dozen, and the number of boxes a man has to carry seems to determine the quantity of blooms that make a dozen. Carnations are excellent and $1.25 is asked for the best. All varieties are improving and Wilder is at last being pushed to one side, Daybreak, Edna Craig and Swayne's Sweetbrier seeming to be preferred. Edna Craig brings $2 per hundred. Mr. Harris, who has some very fine stock of this variety, cannot get enough to supply the demand.

Among the visitors to the chrysanthemum show were J. L. Dillon, Bloomsburg; W. Scott and Prof. Cowell, Buffalo; Mr. Crow, Utica; Mr. Eldridge, Wilkesbarre; Mr. Spaulding, Orange; Messrs. Bennett and Dailledouze, Flatbush; Messrs. Gude and Clark, Washington; Mr. Frazier and others, Baltimore; Mr. Elliott, Pittsburg; and several others whose names we did not get. Another year we hope to have matters better arranged so as to get our guests to visit us about the same time and then we will have a chance to show them a little Quaker hospitality.

As far as we can learn, the volume of business is up to last year at this season, so that in spite of the cry of hard times we may all be happy yet. Some growers are complaining that prices are so low, but a comparison with those of a year ago shows very little change, not enough, we venture to say, to interfere with next season's crop of new houses.

F. O. Canning of Horticultural Hall in Fairmount Park was married to Miss Sarah J. Holmes of Philadelphia November 16. K.

Boston.

The finest dozen blooms ever shown here was the vase of Mrs. Jerome Jones from Mr. Simpkins. Foliage, stem and bloom were as near perfect in every respect as anything could possibly be. Mr. A. H. Fewkes showed blooms of a seedling canna resembling very much Florence Vaughan in marking, but of a richer yellow color, a fuller spike and petals wider open, although somewhat narrower than those of Florence Vaughan. It was awarded a silver medal. David Allan showed a pretty group of orchids, including some good cypripediums and Dendrobium formosum virginale. "Just so they won't forget I'm about," said Davie. Rea Bros. exhibited a plant in bloom of the true Aster grandiflorus, and received a certificate of merit for the same.

Alex Montgomery has shown the Boston market what he can do with chrysanthemums, and he can make as phenomenal a record with these as he can with roses. He speaks very highly of Mrs. H. F. Spaulding, Harry Balsley and W. G. Newett. Geo. W. Childs he finds liable to burn and Mabel Simpkins drops badly. He has nothing but words of praise for the new rose Kaiserin Augusta Victoria. The Cornelia Cook, which has hitherto been grown extensively at this establishment, has been thrown out entirely this year.

Geo. A. Sutherland has had his establishment thoroughly renovated and put in shape for the big business he expects to catch during the coming winter.

N. F. McCarthy & Co. had a successful auction sale of budded roses and other dormant stock on November 1.

On Tuesday November 14, a party of gentlemen representing the garden committee and others of the Massachusetts Horticultural Society made a visit upon invitation of Mr. C. M. Atkinson, to the grounds and greenhouses of Mr. J. L. Gardner, over which Mr. Atkinson has for many years presided. The party was met at the door by their smiling host and the first thing they were shown was a well laden table to which they were invited to sit down and do justice. After getting through with this important part of the ceremony they were in good condition to appreciate all that Mr. Atkinson had to show them in the greenhouses. Among other things the cypripediums, odontoglossums and calanthes were in splendid condition and that prettiest of all orchids for florists' use, Dendrobium Phalænopsis as seen in many beautiful shades of color, and phalænopsis in several species were pronounced by Mr. Fred Harris to be the best he had seen for a long time. Mr. Atkinson has very good success with eucharis and on being asked regarding his treatment he said an important point was that they should be kept dry. The plants in question at the time he said had not been watered for seven weeks. When wanted in bloom the resumption of water throws them into full flower, and another advantage in keeping them dry is that it is a sure way to keep them clear of the mite which is a serious pest otherwise. There was quite a show of chrysanthemums, some of the finest varieties in cultivation being seen here at their best. They were domiciled in the grape house. One of the most satisfactory varieties was Mrs. E. D. Adams, which although an early variety elsewhere was just in its prime here at this late date. In the herbaceous borders the Christmas roses were blooming and were a welcome sight to the English born members of the party. Before the visit broke up Mr. Atkinson discovered that the day was his birthday, a fact which he had overlooked and which resulted in prolonging the pleasant occasion far into the evening.

Mr. Ormsby, of ventilator fame, gave an entertainment at the Rawson greenhouse at Arlington to about two hundred and fifty market gardeners, florists and their ladies on the afternoon and evening of November 15. The party met at Arlington from whence they were conveyed by wagons to the establishment of W. H. Elliott in Brighton where the wonderful asparagus houses were inspected. Returning to Arlington with appetites well sharpened by the long ride they found a bountiful collation prepared for them. Music, speeches and dancing were indulged in and when the party broke up late in the evening it was unanimously voted that they never had a better time in their lives.

On Saturday, November 18, there was quite a display of chrysanthemums, carnations, etc., at Horticultural Hall from several local growers. James Comley showed sixteen large well bloomed plants of a novel chrysanthemum which he brought from Japan a year ago. The petals are very long, reflexed and drooping, color light garnet edged with pale pink or white. The centre of the flower is deep garnet, very prominent on account of the drooping habit of the petals. The effect of these blooms on the plant is very striking and the variety ought to become a favorite kind for growers of exhibition plants. Norris A. Comley showed blooms of a very promising seedling, resembling greatly Ada Spaulding, but of a very deep rich pink throughout. It received a complimentary notice. Another seedling from Louis Boehmer and Mrs. Alpheus Hardy raised by T. D. Hatfield attracted much attention. It has been named Eiderdown. It is to all purposes a white

Kioto without any of Kioto's faults. A solid compact flower and looks like a good shipper. In the fruit exhibit Geo. A. Nickerson and J. H. White showed some fine hothouse grapes.

Your Philadelphia correspondent takes exception to the description in a previous Boston letter of chrysanthemum Mrs. Craig Lippincott as a "hairy yellow." The only reply I can make is that the flowers referred to did have an abundant hairy growth on the petals, and that the stocks on which they grew came from a prominent *Philadelphia* grower, labeled Mrs. Craig Lippincott. Possibly there is something in the atmosphere here conducive to such a growth. If so a short sojourn at the Hub might be advisable for our esteemed Philadelphia correspondent. If he will look in the glass he will understand.

Cut flower trade is looking up a little here. Roses are shortening in supply and the demand is improving. Violets also are selling much better than they did. Chrysanthemums are still plentiful, but the quality is only medium in most cases.

Mr. Wm. C. Barry of Rochester favored us with a short visit last week.

New York.

Considerable surprise is expressed regarding the report in the AMERICAN FLORIST Special for November 4, to the effect that "a scarcity of plants and some lack of harmony at New York is reported to affect the prospects of their show." Where such an idea could have originated it is impossible to imagine. The fact is that in the preparation and carrying out of the recent exhibition the amount of friction was less than on any previous occasion, and those gentlemen who were intrusted with the work pulled together with a single purpose, and happily to a successful finish. As to plants there were enough of them and no anxiety was felt beforehand regarding this feature of the exhibition.

One day in the latter part of the week Ernst Asmus was very much in evidence at the exhibition hall. He was in a state of ecstatic glee and acted like an Indian out on the Messiah dance. In his lucid intervals he explained that all his fun was at the expense of the rose men, who had staged a lot of roses without going through the formality of labeling them and were all disqualified by the judges in consequence.

Dyed chrysanthemum blooms are to be seen in several of the florists' windows, sometimes where such things would be least expected. The pink dyed Ivory seems to be the most popular, but occasionally a green Wanamaker supplies variety for the tawdry display. Self-respecting florists ought to be above such things.

John Henderson Co. are sending to Millang Bros. Meteors of wonderfully fine size, color and finish. When of good quality this is the best selling rose in the market this season.

Brower & Sons are engaged in a war with the Greeks, who have taken possession of the sidewalks in their neighborhood much to the detriment of the legitimate flower trade. The fight has already reached the Supreme Court.

As an indication of the extent of the recent glut of roses in the New York market, Mr. Theodore Roehrs tells of an enterprising newsboy on a Sixth avenue car who gave his customers a rose as a premium with each penny paper.

St. Louis.

During the past week quite a change has occurred in the weather, the glass going close to or below freezing point every night. It has had the effect of shortening up stock and slightly improving the market, the hope being expressed on all sides is for a continuance of the cold spell.

The late flower show may be looked upon as a success as far as exhibits and arrangements are concerned; the balance sheet has not as yet been worked out but the indications are that the signers of the guarantee fund may be called upon for about $50. The bowling club has gone through some radical changes lately, apparently with good effect; three teams have been formed which play each other alternately and much amusement is caused by the effort to keep to the front. So far team No. 3, known as the "brotherly team" owing to its having among its numbers three Young brothers and two Ostertag boys, is ahead having the highest average score, as well as holding the man with the highest individual score, Will Young, who has 277 pins to his credit, and who is conceded to have a sort of "lead pipe cinch" on the gold medal for the next six weeks.

Mr. Alex Waldbart has been confined to the house for some time through illness and all are hoping for his speedy reappearance. Mr. George Waldbart, who has been for a long time with his brother Mr. Alex Waldbart at Grand avenue and Chestnut streets, it is rumored will open a store of his own on Grand avenue near Olive street. Mr. Will Oughton has opened a retail store on Washington avenue near Twenty-seventh street.

A flower show was held on the 16th and 17th at Kirkwood, a small town situated about twelve miles from and tributary to St. Louis, under the auspices of the village improvement society, the object being to raise funds to carry forward the work that the society has taken in hand as well as to promote sociability and good feeling among the residents and members. The exhibition lasted two days, a dance being held the second evening, in which all the young people of the place took part. Refreshments were served while the show was in progress and everything done to make visitors feel welcome. The exhibition was gotten up principally by amateurs. The chrysanthemum plants shown were good, having a nice clean growth, that would put some professionals to shame; the newer varieties were well represented in the collections. Mr. D. S. Brown, whose beautiful place "Brownhurst" lies but a short distance from the town limits, exhibited "not for competition," chrysanthemums, palms, and orchids in flower, making a fine display, as those who visited his place during the convention know he is able to do. Mrs. F. W. Hoyt received first prize for best collection of chrysanthemum plants, having in her collection well grown Ivory, Minnie Wanamaker, Puritan, Mrs. Irving Clark and Dawn. Mrs. A. S. Mermod also showed chrysanthemums in quantity, while numerous other members showed several plants each, all together making a fine appearance. Mrs. Rebecca Hazard showed three seedlings, capturing a prize with one called Grace Hazard, a medium sized flower, the color being white. Among the professional exhibitors were the Michel Plant & Bulb Co., who took first prize with a display of cut chrysanthemums and also showed a group of plants. Mr. Chas. Conner exhibited some standard plants in fine condition that were too late for the St. Louis show. Luther Armstrong exhibited table decoration and collection cut carnations, capturing first with both entries. Cut roses were represented by a collection from R. F. Tesson which were very attractive. The exhibition all through was a big success, so much so that it has been decided to hold another next season. This is something that can and should be copied to advantage by many small towns and villages, and which would not only prove an educational feature, but would make neighbors better acquaintances and friends.

R. F. T.

Chicago.

Mr. Robert Craig left for home last Thursday, the 16th inst.

Mr. E. A. Wood passed through the city on his way home from Denver last Monday. He reports that the Denver show was a good one.

The flower market is in fair condition, but most of the retailers complain of extremely slow collections. Roses are stiffening in price; first-class Beauties have gone up to $25, and best quality in other lines shows a corresponding increase. White carnations sell rather slowly; there is a large supply of cheap white chrysanthemums, which are cheaper for making up than carnations, so short stemmed whites are in very slight demand. Some of the fancies, such as Edna Craig or Daybreak, bring $2, but this is the highest. There are no such fancy prices for carnations as prevailed last year. Violets still keep stiff at $1.50; some fine flowers have begun to come in from local growers, but many are sent from the east.

Chrysanthemums are falling off fast, and few specimen blooms are received. Some good Lincolns were noted, and a small supply of some of the newer yellows, and some extra fine Lilian B. Bird, which, when first class sells, but not otherwise. Among whites Niveus is still good, and quite a lot of the neat little Snowball (Mrs. S. Humphreys), which sells well for $5 to $6. The best specimen blooms go for $15, and though there is talk of a higher price for Thanksgiving, it seems somewhat doubtful.

Harrisii and callas range from $12.50 to $16, and, of the two, callas go the more readily when first class. Valley and Romans sell well, but there is no market for narcissus; dealers are willing to get rid of it for $2 to $3, though valley and Romans go for $4 to $5. Smilax is more plentiful, and there is a good supply ready to cut. Galax leaves are selling better than they did, but not as well as they deserve; probably they will go better as flowers become dearer. There is a preference for the bronze leaves, rather than green.

Flushing, N. Y.

The chrysanthemum show (the first show held in Flushing) is a decided success, the attendance being large and appreciative. The exhibits are up to the standard. The exhibitiors are Henry C. Rath, carnation blooms and chrysanthemums in pots; Leavit & Lawler, palms; P. J. Tully, begonias; Dr. J. W. Barstow, palms; and the John Henderson Co. cut roses and chrysanthemums and chrysanthemums in pots including most of the leading varieties. Our only drawback was the size of the hall. We are greatly encouraged to do it again next year on a larger scale.

H.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Gnaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent, 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

WE HAVE received from Mr. Wm. C. Bowditch, Boston, a copy of his "souvenir," which is a very neatly gotten up advertising novelty. It is in the form of the long strips of views in cities that fold up into a cover, and contains 18 small half-tone engravings of views in his greenhouses and store, also groups of plants and photos of floral arrangements. We would imagine it to be an effective adv. with the general public whom it is designed to interest.

FLORIST.—The feathery leaved plant seen in the Chicago park may have been Pyrethrum aureum, or, possibly, the party may have referred to santolina or to Sedum Charlesii. You give small clue to identification. The echeveria mostly used is secunda glauca, and of the alternantheras paronychioides major and aurea nana. Please give your name and address with future inquiries.

I. C. B.—We have forwarded the insect to the Government Entomologist for identification and will print his reply when received. Please give your full name and address in future communications.

H. L. SUNDERBRUCH,
Wholesale Florist
4TH AND WALNUT STREETS,
Cincinnati, O.

SAMUEL S. PENNOCK,
Wholesale Florist
REAR OF 42 S. 16th STREET,
Philadelphia, Pa.

CUT FLOWERS.
Roses, Carnations AND Chrysanthemums.
Write for prices.
GEO. A. KUHL, Pekin, Ill.

W. ELLISON,
WHOLESALE
Cut Flowers AND Florists' Supplies
1402 PINE STEET,
St. Louis, Mo.

CUT SMILAX,
15 cts. per string till November 1st. Quality first-class. Special attention to orders by wire.
J. E. BONSALL & SON, 308 Garfield Ave., Salem, O.

J. B. DEAMUD & CO.
Wholesale Cut Flowers.
Roman Hyacinths, Valley, and the finest stock of Roses in the market.
All shipping orders are filled from fresh cut stock of our own growing.
LILIUM HARRISII READY NOW.
45 Lake Street, CUT FLOWER EXCHANGE, CHICAGO.

"JACQ" ROSES the Year Around.
We are now Cutting THOUSANDS DAILY of
* METEOR ROSES. *
The finest Crimson Summer Rose, equal to "Jacq" in color and far superior in keeping qualities. Can supply it in quantity at all times. Prices on application.
F. R. PIERSON COMPANY,
Tarrytown-on-Hudson, N. Y.

CHRYSANTHEMUMS that have no superior
VALLEY that can't be beat—it is fine.
ROSES, all varieties first-class.
CARNATIONS in variety.
* * ADIANTUM, ASPARAGUS and all flowers in season.
Send in your orders; I can fill them; and will properly pack and ship on time.
CORBREY & McKELLAR,
WHOLESALE AND COMMISSION FLORISTS,
PHONE, MAIN 4508. 45 Lake St., CHICAGO.

FOR DECORATING, NOTHING CAN EQUAL
ASPARAGUS PLUMOSUS NANUS.
CUT STRINGS 8 TO 12 FEET LONG, 50 CTS. 12 TO 18 FEET LONG, $1.00.
Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.
W. H. ELLIOTT, Brighton, Mass.

WHOLESALE FLORISTS
La Roche & Stahl
N. E. CORNER 13th & Chestnut Sts.,
PHILADELPHIA.

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
WHOLESALE FLORIST,
1122 PINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

CUT FLOWERS.
Novelties and New Introductions in
ROSES AND CHRYSANTHEMUMS.
Fine Exhibition Stock.
THOS. YOUNG, JR.,
WHOLESALE FLORIST,
20 WEST 24TH ST., NEW YORK.

DAN'L B. LONG,
COMMISSION • FLORIST,
495 Washington St., BUFFALO, N. Y.
FORCING BULBS, FLORISTS' SUPPLIES, LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO.

THANKSGIVING PRICES.

	Per 100
Perles, Niphetos, Gontier	$ 2.00@$ 3.00
Bride, Mermet, La France, Victoria	3.00@ 5.00
Testout, Meteor	5.00@ 6.00
Am. Beauty	12.00@ 25.00
Carnations, long	1.00@ 1.50
" fancy	2.00
" short	.50@ 1.00
Valley, Romans, Paper White	4.00@ 5.00
Harrisii, Callas	12.00@ 18.00
Violets, single $1.00; double	1.50
Chrysanthemums, common	2.00@ 6.00
" fancy	8.00@ 20.00
Smilax	18.00
Feros, common per 1000 $2.50,	.50
Adiantum	1.00
Fresh Cycas leaves $1.00 each.	

Western Agent for the GREAT ANTIPEST.

FLINT KENNICOTT, President. FRED. W. H. SUNDMACHER, Sec'y and Treas.

Kennicott Bros. Co.
34 & 36 RANDOLPH STREET,
CHICAGO.
WHOLESALE CUT FLOWERS,
and FLORISTS' SUPPLIES.
WIRE WORK A SPECIALTY.

General Agents for Chicago and the Northwest of Kelsey's Beautiful New Southern Galax Leaves, $2.00 per 1000; 25 cents per 100.

A. L. RANDALL,
Wholesale Florist,
126 Dearborn St., CHICAGO.

Agent for finest grades Waxed and Tissue Papers.

NILES CENTER FLORAL CO.
Incorporated.
WHOLESALE GROWERS OF
CUT FLOWERS of ALL KINDS
and Dealers in FLORISTS' SUPPLIES.
In Chicago Cut Flower Exchange,
45 Lake Street, CHICAGO

WHOLESALE FLORISTS,
JOBBERS IN . . . FLORISTS' SUPPLIES, FLORISTS' VASES.
METS, BRIDES, GONTIERS, CARNATIONS, ALWAYS ON HAND.
1 Music Hall Place,
BOSTON, MASS.
HORTICULTURAL AUCTIONEERS. . .

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St., BOSTON, MASS.

Mention the American Florist when writing to advertisers on this page.

Wholesale Markets.

Cut Flowers.

NEW YORK, Nov. 20.

Roses, Gontier, Perle, Cusin. Watteville	.5@ 2.00
" Mermet, Bride, Hoste	.50@ 3.00
" Bridesmaid, Augusta Victoria	1.00@ 5.00
" Testout, Meteor, La France	1.00@ 5.00
" Beauty	5.00@25.00
Carnations	.30@ 1.00
Chrysanthemums, selected	8.00@15 00
" small	1.00@ 3.00
Violets	1.00@ 2.00
Valley	2.00@ 3.00
Harrisii	15.00
Smilax	8.00@12.00
Adiantums	1.00
Asparagus	50.00

BOSTON, Nov. 20.

Roses, Gontier, Niphetos, Perle, Sunset	1.00@ 2.00
" Bride, Mermet	1.50@ 2.00
" Meteor, La France	2.00@ 4.00
" American Beauty	8.00@12.00
Carnations	.50@ 1.00
Chrysanthemums	2.00@10.00
Lily of the valley	4 00
Violets	.25@ .50
Smilax	12.00
Adiantum	1.00
Asparagus plumosus	50.00

PHILADELPHIA, Nov. 20.

Roses, Perle, Gontier, Niphetos	1.50@ 2.00
" Cusin, Watteville, Hoste	1.50@ 2.00
" La France, Mermet, Bridesmaid	3.00@ 4.00
" Bride, Testout	3.00@ 4.00
" Meteors, Kaiserin	4.00@ 6.00
" Belle, Beauty	12.00@16.00
Carnations, long	1.00@ 1.25
" short	.75
Violets, per 100 bunches, single	3.00@ 4.00
" double	.50
Chrysanthemums, first choice	16.00
" second choice	8.00@12.00
" sprays, per 100 flowers	2 00@ 3.00
Valley	3.00@ 4.00
Roman hyacioth	4.00
Paper White Narcissus	4.00
Smilax	12.00@15.00
Asparagus, per bunch	.50
Adiantum	1.00@ 1.50

CHICAGO, Nov. 22.

Roses, Perle, Gontier, Niphetos	2.00@ 3.00
" Bride, Mermet, La France	3.00@ 5.00
" Kaiserin	3.00@ 5.00
" Meteor, Testout	5.00@ 6.00
" Beauties	12.00@25.00
Carnations, long	1.00@ 1.50
" short	.50@ 1.00
" fancy	2.00
Valley, Romans	4.00@ 5.00
Paper White Narcissus	2.00@ 5.00
Harrisii, Callas	12.00@18 00
Violets	1.50
Chrysanthemums, common	2.00@ 6 00
" fancy	8.00@20.00
Smilax	12.00@18 00

ST. LOUIS, Nov. 20.

Roses, Gontier, Perle, Niphetos	2.00@ 3.00
" Wootton	2.00@ 3.00
" Bride, Mermet, La France, Albany	3.00@ 4.00
" Kaiserin, Testont	3.00@ 5.00
" Beauty	5.00@20.00
Carnations, short	.75
" long	1.00
" fancy	1.00@ 2.00
Valley, Romans	4.00
Chrysanthemums, common	2.00@ 6.00
" fancy	8.00@20.00
Smilax	12.00@18.00

CINCINNATI, Nov. 18.

Roses, Beauty	10.00@20 00
" Mermet, Bride, La France	3.00@ 4 00
" Perle	3.00
" Niphetos	3.00@ 4.00
Carnations, long	1 25
" short	.50
Chrysanthemums	5.00@ 25.00
Violets	1.00
Valley	4.00
Narcissus, Romans	2.00@ 3.00
Asparagus	50.00@75.00
Smilax	15.00
Adiantum	1.00@ 1.25

BUFFALO, Nov. 20.

Roses, Beauties	10.00@20.00
" Mermet, Bride, Meteor	4.00@ 5.00
" Testout, La France	5.00@ 6.00
" Gontier, Niphetos, Hoste, Perle	3.00@ 4.00
Valley	5.00
Violets	.75
Carnations, long	1.00@ 2.00
" short	.75
Chrysanthemums	5.00@15.00
Smilax	12.00@15.00
Adiantum	1.50
Asparagus	50.00

GEORGE A. SUTHERLAND,
SUCCESSOR TO
PECK & SUTHERLAND,
Successors to WM. J. STEWART,
CUT FLOWERS
and Florists' Supplies.
WHOLESALE.
67 Bromfield St., BOSTON, MASS.

BURNS & RAYNOR,
29 West 28th Street,
NEW YORK,
Wholesale Dealers in
and Shippers of
Choice Flowers
OUR SPECIALTIES:
Chrysanthemums, American Beauties, Meteors.

WALTER F. SHERIDAN,
· WHOLESALE ·
FLORIST,
32 West 30th Street, NEW YORK.
Roses Shipped to all points. Price list on application.

JOHN YOUNG,
Commission Dealer in
CUT FLOWERS.
WHOLESALE.
53 WEST 30TH ST., NEW YORK.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS,
51 W. 30th St., NEW YORK.

JAMES HART,
WHOLESALE FLORIST,
117 W. 30TH ST., NEW YORK.
The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHRS,
WHOLESALE
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.
Established 1879.

MILLANG BROS.,
Wholesale Florists,
17 WEST 28TH STREET,
NEW YORK.
BRANCH: Cut Flower Exchange, 408 E. 34th Street.

MICHAEL A. HART,
Wholesale AND Commission Florist
113 WEST 30TH STREET,
· · · NEW YORK.
THE FINEST ROSES AND CARNATIONS.
Branch, at Cut Flower Exchange, 408 E. 34th St.

Edward C. Horan,
34 W 29th Street, NEW YORK,
WHOLESALE FLORIST.
Careful Shipping to all parts of the country
Price list on application.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and treasurer, 116 Chambers street, New York. Next annual meeting second Tuesday in June, (will probably be held in Toronto.)

A Reminiscence.

In view of the tendency of the times to agree on prices the following circular issued in 1865 will doubtless make interesting reading to the older as well as the younger members of the seed trade. History repeats itself.

NEW YORK, November 1, 1865.

Dear Sir:—You are requested to attend a meeting to be held December 1, 1865, at the Scottish Enterprise Horticultural and Seed Store, in this city, for the purpose of forming a Cabbage Grower's Protective Association. Truck growers have long felt the great evils of the present marketing system, by which each man tries to outsell his neighbor instead of making common cause against the hucksters and other unprincipled buyers, many of whom, by their paltry misrepresentations of others prices, induce marketers to dispose of their truck at very low figures, and thus grow shamelessly rich at our expense.

By a regularly fixed scale of prices all this can be easily remedied; we can avoid all the haggling of common barter, all the ill feelings arising therefrom, and great loss of time to ourselves and customers.

It must be evident to the smallest drumhead grower amongst us; how much easier it is for one party to a bargain to make the price than for two; and yet we have haggled out half our lives for the lack of this discovery, the very simplicity of which is so striking, (like the ideas of a great poet) at once a proof of its inherent soundness and the brilliant genius of its discoverer. Then, (between ourselves) we mean to have better prices for without blinking the matter, this is the only cement that can hold our association.

Our motto, which we borrow from the enlightened patriots of the French Republic, is "Liberty, Equality and Fraternity," and bearing it out our system will be found to work very generously towards poorer growers whose land or working facilities do not produce such fine roots or heads; and in case of poor crops generally, besides securing a great saving in small articles which are now sold at greatly reduced figures:—per example, six dollars per hundred being the given price for cabbage, the man who has a small headed crop will realize as much as the best of his neighbors, size being no object to the association.

The Flower Growers' Protective Association has already demonstrated the fallacy of the antediluvian notion that supply and demand must regulate market prices, and with the aid and experience of that enlightened association we purpose teaching the world a sounder philosophy as well as a wiser economy.

It may be well enough for old countries to be regulated by old rules, but it is preposterous to suppose that a young cabbage growing community like ours can be bound by the dogmas of such old fogies as Adam Smith and his desciples, who never studied the necessities of a new world like ours, nor dream't of such glorious marvel as the new era which the Flower Growers' Protective Association has so modestly inaugurated.

PROVISIONAL COMMITTEE.

Sandy Kalestock, Bay Ridge.
L. Drumhead Bergen, Hobokeu.
A. Flat Dutchman, Union Hill.
John B. Cockney, Flushing.
Jean Beeterave, Flatbush.
Herr Blatterkohl, Yorkville.
Hunious Proleafils, Staten Island.
Early Wakefield, South Bergen, chairman.

NEW YEAR'S prices on beet, carrot and turnip are sure to be higher.

THE IMPORTANCE of foreign crops of beet on this market is very great.

VISITED CHICAGO: C. P. Braslan, A. H. Goodwin, E. V. Hallock, R. A. Robbins, S. F. Willard, E. Schaettel.

IT IS RUMORED that the Congressional Committee on Ways and Means have agreed to report seeds free of duty.

A GOOD AUTHORITY on red onion seed claims that with a smaller visible supply than last year the prices should rule higher later on, unless large holders become too anxious to realize early.

WHITE ONION SEED is said to be scarcer than last year. The white imported last season did not give entire satisfaction and hence the probability of greater demand for American grown stocks; besides, the foreign market is comparatively bare this year and no American grown seed has been carried over.

ALBANY, N. Y.—The public have been treated to an exhibition of chrysanthemums at Washington Park during the past week, which has given great pleasure and was most creditable to Supt. Egerton, with whom the idea originated. At the close of the exhibition the flowers were cut from the plants and distributed among the charitable institutions of the city.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Oscar Knopff & Co.,

SEED GROWERS, ERFURT, GERMANY,

Flower, Kitchen Garden, Etc. Seeds.

LILY OF THE VALLEY BULBS.

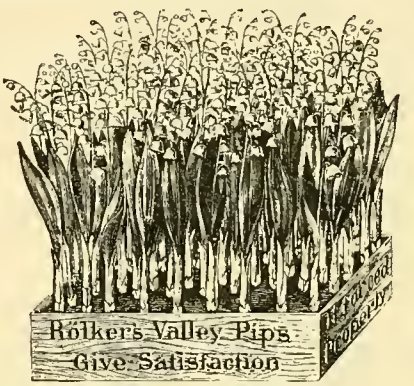
Best qualities at low prices. Orders promptly executed.

MEDAL AWARDED AT WORLD'S COLUMBIAN EXPOSITION

Sole Agents for United States and Canada:

C. B. RICHARD & CO., 61 Broadway, NEW YORK.

☞ Trade Catalogue for 1894 free on application.



Best German Forcing Pips.

Price: $9 the 1,000,
$20 the box of 2,500,

Less ten per cent. for prompt cash.

August Rölker & Sons

New York, P. O. Station E.

Surplus Bulbs.

		Per 1000
ROMAN HYACINTHS,	12 to 15	$17.50
LILIUM HARRISII,	5 to 7	17.50
" "	7 to 9	35.00
		Per 100
" "	9 to 12	9.00
FINE NAMED HYACINTHS		4.00
CALLAS, 1½-inch upwards		5.00

Write for prices of other varieties.

CURRIE BROS.,
MILWAUKEE, WIS.

G. J. MOFFATT,
Manufacturer of
PAPER BAGS AND ENVELOPES
Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN, CONN.

Bulbs. Bulbs. Bulbs.

SURPLUS STOCK.

	Per 100	Per 1000
LIL. HARRISII, 5—7	$1.75	$15.00
" " 7—9	3.00	25.00
" CANDIDUM simplex, large bulbs	2.50	20.00
ROMAN WHITE HYAC., 11—15	1.75	15 00
ITALIAN, blush white Hyac., 13—17	2.00	18.00
NARCISSUS CAMPERNELLE	.70	5.00
" Chinese Sacred Lily, extra large	3.50	30.00

☞ All other bulbs very cheap.

HULSEBOSCH BROS.,
58 West Street, NEW YORK CITY.
Mention American Florist.

Z. De Forest Ely & Co.
WHOLESALE SEEDSMEN,
Growers AND Importers of Bulbs.
JOBBERS IN
FLORISTS' SUPPLIES.
1024 Market Street, PHILADELPHIA, PA.
Price lists to dealers on application.

SEND for Catalogue of



JAPAN BULBS, SEEDS and SHRUBS, ARAUCARIAS, TREE FERNS, AUSTRALIAN PALM SEEDS, CALIFORIA BULBS and SEEDS to

H. H. BERGER & CO.,
Established 1878. SAN FRANCISCO, CAL.

CHOICE SWEET PEAS.

Being the largest growers of the above in the world the trade are invited to send a list of their requirements and secure low prices for Fall delivery.

SHERWOOD HALL NURSERY CO.
Menlo Park and San Francisco, Cal.

Bulbs & Plants.

FOR CATALOGUES, ADDRESS

C. H. JOOSTEN,
IMPORTER,
3 COENTIES SLIP, NEW YORK.
Mention American Florist.

WE SELL MUSHROOM SPAWN,
LILIUM HARRISII AND DUTCH BULBS.
Special Low Prices to Florists & Dealers.

WEEBER & DON,
Seed Merchants and Growers,
114 Chambers Street, NEW YORK.

Phœnix rupicola.

This useful and beautiful Date Palm in EXTRA FINE PLANTS, growing in from 7 to 10-inch pots, from $3.50 to $7.50 each, according to size

EDWIN LONSDALE, Wyndmoor,
STATION "G," PHILADELPHIA.
(Chestnut Hill P. O.)

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By practical florist, age 35, German, single. Good references. Address R, florist, box 277, Lake Geneva, Wis.

SITUATION WANTED—In seed trade or as bookkeeper; 12 years' experience. Address F W B, 3631 Wallace St., Chicago, Ill.

SITUATION WANTED—By German, 24 years of age, as assistant; good greenhouse man; single. Good references. P E, P. O. box 64, Bedford, N. Y.

SITUATION WANTED—By thorough, practical florist and gardener; gentleman's, private or commercial place. Roses, carnations, violets a specialty. Best references. Address G W, box 38, Brooklyn Village, Ohio.

WANTED—A good man to grow fine flowering plants, bulb stuff, etc. Address with reference. JNO. E. ROSE, 105 E. Broad St., Richmond, Va.

WANTED—Florist; one that will do any kind of work—German preferred. Must be reliable. State wages expected with board. Address Box 51, Edwardsville, Ill.

FOR SALE—Owing to failing health we offer for sale our mailing list of 12,000 customers. Best offer takes it. FERRIS BROS., Kingston, N. Y.

FOR SALE—Complete set of florist store fixtures, almost new, fine ice box, large plate mirror, upright wall show case counters, stools, desk, etc., etc. Bargain; or will furnish fixtures on share profits with good florist, having some money and wishing to go in business. Address H, care American Florist.

TO EXCHANGE.

Have more Clematis Dav., Caladium esculentum, Crape Myrtle, Iberis semp., Canna Star of '91, Gladiolus, Tuberoses, L. Candidum, Eulalia uni., double white Althæa, Magnolia grand., Columbine, Amaryllis treatea; also Raspberry plants (Cuthbert), to exchange for Cannas, Carnations, Violets, etc. What have you?
M. R. CATLIN, Richmond, Va.

FOR SALE.

At once, a decided bargain, 3 greenhouses, pit, also house covered with "Fenster Pappe," cold framing 6x18, pots, tools, etc.; fine stock of plants in best condition. Large lot in heart of city; 5-room house. Lease $14.00 a month; in San Antonio, Texas; 40,000 inhabitants. Fine opportunity for a live man. If you mean business write M. C. LONG,
216 Oakland St., San Antonio, Texas.

For Sale.

My stock (20 shares) in Probst Bros. Floral Co. For particulars, write
SAMUEL MURRAY,
1017 Broadway, KANSAS CITY, MO.

SITUATION WANTED

BY COMPETENT DESIGNER; acknowledged the best man in his line at his present place, city of 240,000 inhabitants. Fast, artistic worker, not afraid of any work.

VERY SUCCESSFUL AT FLORAL EXHIBITIONS. Address
FLORAL ART, care American Florist, Chicago.

KELSEY'S BEAUTIFUL NEW SOUTHERN Galax Leaves.

Unique, invaluable. Bronze or green, large and small, $2.00 per 1'00, everywhere. One sample lot only of 5000 sent anywhere at half price.

FREE SAMPLES BY MAIL. Write quickly.

HARLAN P. KELSEY,

Highlands Nursery. LINVILLE, N. C.

General Agents for Chicago and the Northwest, Kenalcott Bros. Co., 34 & 36 Randolph St., Chicago.

Mention American Florist.

6,000 CINERARIAS.

Fine, thrifty young plants, 2¼-inch pots, ready for 3-inch pots, $2.50 per hundred.

VIOLETS—Large clumps, $5.00 per hundred.

STEPHEN WHITTON, 11 Roberts St., Utica, N. Y.

Please mention the American Florist every time you write any of the advertisers on this page.

NEW DIRECTORY.

We have decided to issue a corrected edition of our

TRADE DIRECTORY AND REFERENCE BOOK FOR 1894

February 1 next.

In addition to the changes in the list of those in the trade the lists of roses, chrysanthemums and carnations will be brought up to date. All the other reference features will be retained and several important new ones added, among which will be

Seasonable Hints for the Year,

covering each week separately, prepared by Mr. Wm. Scott, whose seasonable hints published in the FLORIST have been so helpful to our readers during the past year. This calendar of operations, in condensed form, and where it can be readily consulted at any and all times, cannot fail to greatly enhance the value of the book.

Change in the Size of Book.

In view of the growing value of the book for frequent reference we have decided to reduce the size of the page sufficiently to make the volume of handy size for carrying in the pocket. This change will make the printed part of the page 3 1-2 inches wide and 6 1-2 inches long, instead of 4 1-2 by 7 1-4 as before.

ADVERTISEMENTS.

In view of the reduction in size of page we have reduced the rates for advertisements to the following, each including a copy of the book:

FULL PAGE, - -	$25.00
HALF PAGE, - - -	15.00
QUARTER PAGE, -	9.00
EIGHTH PAGE, - -	5.00

Every adv. will be placed opposite important reference matter that will be frequently consulted by buyers of the book.

Send Orders Now

to get the best positions.

AMERICAN FLORIST CO.

P. O. Drawer 164. Chicago.

News Notes.

GEORGETOWN, MD.—Mr. Samuel F. Evans, a florist of Georgetown, died on November 13, after an illness of many months.

HOLYOKE, MASS.—At the regular monthly meeting of the Horticultural Society, held on November 4, Mr. Wm. S. Loomis read an interesting paper on window gardening.

WILKESBARRE, PA.—I. G. Marvin gave a successful chrysanthemum exhibition in Memorial Hall during the week of November 13-18, for the benefit of the Women's Relief Corps.

WE REGRET to have to announce that owing to failing eyesight the veteran landscape architect, Mr. H. W. S. Cleveland, of Minneapolis, has been forced to give up all professional work.

LEBANON, PA.—A very fine chrysanthemum show opened in Lebanon on Thursday, November 16. Many of the finest varieties were on exhibition, contributed by neighboring florists and amateurs.

NORWICH, CONN.—Mr. E. N. Gibbs gave a public exhibition of chrysanthemums at his greenhouses on November 7 and 8 which was very creditable. The place was thronged with visitors on both days.

BRIDGEPORT, CONN.—The Fairfield Horticultural Society's exhibition of chrysanthemums on November 3 and 4 was exceedingly creditable and attracted a large number of visitors. Many of the prominent florists of Bridgeport and vicinity contributed plants and flowers.

KANSAS CITY, MO.—J. H. Smith came here from Minneapolis and in spite of the warning published in the FLORIST managed to repeat his old tricks of borrowing money from employes, and he even managed to draw from his employer more money than was coming to him.

MT. VERNON, N. Y.—E. W. Weimar gave a very fine exhibition at his greenhouses on Third avenue. The plants were numerous and well grown and included some of the finest new varieties. There was a large attendance during the time they were on exhibition.

MILLBROOK, N. Y.—There were some very fine chrysanthemums exhibited in Millbrook this season at the chrysanthemum show which opened here on November 15. The local growers were represented by a number of very fine plants and quantities of magnificent blossoms.

PRINCETON, N. J.—The fifth annual exhibition of chrysanthemums by Wm. G. McTear was held as usual in one of the large greenhouses during the week ending November 11, and was attended by a very large number of visitors, who were delighted by the beautiful and effective display.

WORCESTER, MASS.—The annual meeting of the Worcester Horticultural Society was held in the library room of Horticultural Hall on November 1. President Henry L. Parker was re-elected by a unanimous vote. E. W. Lincoln was elected secretary, Nathaniel Paine, treasurer, and A. A. Hixon, librarian. The treasurer's report showed a substantial reduction in the society's debt during the past year. A committee consisting of Messrs. Hadwen, Draper and Blake was elected to arrange for a series of public meetings during the winter and the sum of $250 was appropriated for their use.

CARNATIONS.

I have fourteen houses planted to carnations, and they are under my special care and supervision so that I can guarantee every cutting sent out.

If you will kindly write to me stating what varieties you want, how many of each, and when they are to be delivered, I will give you figures and think we can make a deal.

ANNIE PIXLEY.—This is a new pink, and one that you want to try; it is one of those beautiful light pinks, just the proper color. The stems can be cut fifteen to twenty inches long, the calyx never bursts, and it is such a strong grower and free bloomer that you can't help but make money if you plant it.

Orders will be filled in rotation, beginning now. Price per 100, $12.00; per 1000, $100.00. Twenty-five at 100 rate, 250 at 1000 rates.

PANSIES.

I will have good little plants right along until April 1st. The strain is good, extra good, and the price is very low, quality considered. Per 100, 75c; per 500, $3.00, free delivery; per 1000, $5.00, you to pay the delivery.

GERANIUMS.

Rooted Cuttings, all first-class varieties and good bedders. Price, in mixture, $10.00 per 1000; $1.50 per 100. In separate colors, $12.00 per 1000, or $2.00 per 100. There are no medium varieties among these; all are A No. 1.

Samples of any stock free. Terms absolutely cash with the order or C. O. D.

L. B. 496. ALBERT M. HERR, LANCASTER, PA.

500,000 PANSIES

The Jennings Strain of large flowering and Fancy Pansies can be had in any quantity wanted up to Jan. 1st. They are the leading strain to-day, more being sold than any other in the market. Plants are field-grown and are very fine and stocky. Large, medium or small, one price 60 cts. 100 by mail; by express 1000 $5, 5000 $20, 10,000 $35, and plenty of extra plants gratis to help pay express. Yellow and white in separate colors if desired, same price. Florists try this strain of pansies. There is money in it. Only small plants by mail.

PANSY SEED—Pure white, yellow, or mixed, $1.00 per packet of 2500 seeds.

4,000 fine field-grown CARNATIONS, sold cheap to clean out. Send for prices.

ADDRESS **E. B. JENNINGS,**
WHOLESALE PANSY GROWER,
Lock box 254. SOUTHPORT, CONN.

SPEAK QUICK!

IF YOU WANT THEM.

25 LATANIA BORBONICA, 12-inch pots, fine specimens, $20.00 each.
NEPHROLEPIS EXALTATA, 4-inch. . . $10 00 per 100
" " 3-inch. . . 7.00 per 100
PHOENIX RUPICOLA, 6-inch. . 10.00 per doz.

All the above in fine condition and ready for a shift.

JOHN IRVINE GREENHOUSE CO.,
BAY CITY, MICH.

40,000 Carnations.

FIELD-GROWN FREE FROM RUST. Per 100
ALL SOLD EXCEPT

1000 Grace Wilder	$ 5.00
1000 Portia	5.00
500 Tidal Wave	5.00
1000 Orange Blossom	4 00
3000 Hinze's White	4.00

Also extra fine strain of Pansies. Cold frame size.....per 1000 $5.00;

CASH WITH ORDER.
Address GEO. B. WHITEHEAD,
Lock Box 116. Greens Farms, Conn.

Carnations.

Field plants all sold.

Orders solicited for early delivery of **ROOTED CUTTINGS** in varieties suitable for summer blooming.

C. J. PENNOCK,
The Pines. KENNETT SQUARE, Chester Co., PA.

CYCLAMEN persicum giganteum 5-inch pots $10 00 per 100
GENISTAS, 2½-inch pots, strong plants, $6.00 per 100.
CARNATIONS, Dorner's Seedlings, $15 per 100 McGowan, Puritan, Wilder, and others, $8.00 per 100. Second size $6.00 per 100
Correspondence solicited.

Address **J. G. Burrow,**
FISHKILL, N. Y.

CARNATIONS.

All the new and leading varieties. Send for prices on what you want.

GEO. HANCOCK, Grand Haven, Mich.

VERBENAS, MAMMOTH PLANTS, and Rooted Cuttings in perfect condition, bright colors in large quantities. Write me stating what you want. A few rooted Coleus and Pansy plants very low. W. B. WOODRUFF, Westfield, N. J.

Forcing Roses.

A stock of the best varieies always on hand.

M. A. HUNT, Terre Haute, Ind.

The Grand New Forcing Rose,
"American Belle."
Prices and full particulars on application.
John Burton, Chestnut Hill, Philadelphia

Hybrid Perpetual Roses,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

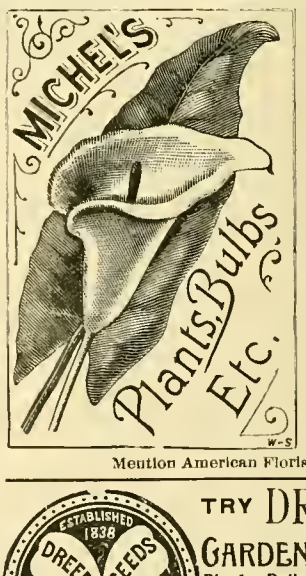
Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

ROSES.

	Per 100	Per 1000
1500 Perle, 3-inch	$ 5.00	$40.00
1000 " 2½-inch	3.00	25.00
600 Bride, 2½-inch	3.00	25.00
1200 Mermet, 2½-inch	3.00	25.00
200 Hoste, 2½-inch	3.00	

BROWN & CANFIELD, Springfield, Ill.



Write for Wholesale List.
MICHEL PLANT AND BULB CO.,
ST. LOUIS, MO.

Mention American Florist.

TRY **DREER'S GARDEN SEEDS,**
Plants, Bulbs & Requisites.
They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
HENRY A. DREER,
Philadelphia, Pa.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

INCREASE YOUR INCOME

without any expense or loss of time by taking subscriptions to GARDENING from your customers when they call. For special terms to florists address

THE GARDENING CO., Monon Building, Chicago.

Siebrecht & Wadley,

ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.

Palms, ORCHIDS Roses,

and New Plants.

FRESH DRACAENA CANES NOW READY.

Mention American Florist.

ORCHIDS.

The Finest Stock in the World.

SANDER'S,

ST. ALBANS, ENGLAND.

Thirty minutes from London.

Our Mr. A Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

FRESH IMPORTED ORCHIDS.

Cattleya Gaskelliana,

5—7 Bulbs, $.75 each.
7—12 Bulbs, 1.25 each.
Larger plants, $2.00 to $5.00 each.

I. FORSTERMAN,
Newtown, N. Y.

Mention American Florist

HEADQUARTERS for WATER LILIES

SEED, TUBERS AND PLANTS.

Embracing all the newest and choicest in cultivation. Awarded SIX MEDALS at World's Fair—the highest number of awards for aquatics.

Illustrated descriptive Catalogue free on application.

Wm. TRICKER, DONGAN HILLS, New York.

HERE THEY GO

AT A BARGAIN.

Nice, clean, well-grown stock. If you are in need, write us.

Genista racemosus, Dracæna indivisa, Ferns assorted, Cyperus, Asparagus tenuissimus, Begonia Rex, Clematis paniculata, Ampelopsis Veitchii, Honeysuckles, Spiræa Japonica, Delphiniums, Gaillardias, and other hardy plants. Prices and sizes on application.

HARRY CHAAPEL,
. . . WILLIAMSPORT, PA.

VERY CHEAP PLANTS AND BULBS

Cape Jessamine, Allamanda grandiflora. Curculigo recurvata, Cyperus alternifolia. Anthericum vittata var.	4-inch pots. 8 cts. each in lots.

The same in 5-inch pots at 12 cts. in lots. Fancy Caladium bulbs, small size, at $35 per 1000. The same, named kinds, at $45 per 1000; larger size bulbs in proportion. Address

F. J. ULBRICHT, Florist, Anniston, Ala.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

100,000 VERBENAS.

THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.

NO RUST OR MILDEW.

Packed light, and satisfaction guaranteed. Send for circular. . . .

We are the largest growers of Verbenas in the country. Our sales reaching last year 215,500. Our plants this year fully equal, if not surpass, any we have ever grown.

J. L. DILLON, Bloomsburg, Pa.

MRS. CRAIG LIPPINCOTT.

The finest yellow Chrysanthemum yet introduced, and the best for commercial use.

GET STOCK PLANTS FROM THE ORIGINAL INTRODUCER. $4.00 per doz ; $30.00 per 100.

HUGH GRAHAM, 1204 Chestnut Street, Philadelphia, Pa.

Chrysanthemums

FOR SALE: Stock plants of IVORY, A. SPAULDING, M. WANAMAKER, W. H. LINCOLN, H. E. WIDENER, MERMAID, at 2 for 25c.; 10 for $1.00; $10.00 per 100.

COL. WM. B. SMITH, KATE BROWN, and a few more good new ones, at 25c. each.

Orders booked now for rooted cuttings of Carnations and Chrysanthemums. Ivory A. Spaulding, and Wanamaker, Lincoln and Widener by the 1000 this year.

FRED. BURKI,
Wholesale Florist,
Allegheny Co. BELLEVUE, PA.

PLANTS OF

CHRYSANTHEMUM

ETOILE D'OR,
(Single Yellow Daisy.)

will be ready for shipment 1st of December. Strong plants in 3-in. pots ready tor a shift, **$4 per dozen; $20 per 100.** These plants will be ready to bloom last of January and continue until July. Ours were the only bloom in the Philadelphia market last year.

Stock Limited.

S. EDWARDS & SON,
478 Irving Ave., BRIDGETON, NEW JERSEY.

ASPARAGUS PLUMOSUS NANUS, good plants, from 4-inch pots $20 per 100

ASPIDISTRA, variegated. A few fine plants, 5 and 6-inch pots $4 per dozen

CLIVIA, from fine new European varieties, young plants, 4-inch pots $2 per dozen

EUCHARIS GRANDIFLORA, bulbs 5 to 6 in. circ., with healthy leaves. $3 per dozen

EULALIA UNIVITTATA.$2 per 100; $15 per 1000

ARUNDO DONAX, variegated, strong roots, $2 per dozen. $15 per 100

IRIS GERMANICA, a fine pure white sort, perfectly hardy $10 per 100

PAEONIES, double white and double pink, two of the best, mixed $12 per 100

Any of the above will be sent on receipt of price with order.

ALEX. SCOTT,
Balto. Co., Lauraville, Md.

HYDRANGEA,

THOMAS HOGG,

3 and 4-inch pots, $4.00 and $6.00 per 100.

BRAUER & RICHTER,
McCONNELSVILLE, OHIO.

Chrysanthemums.

STOCK PLANTS.

The Queen.	Dr. Mandeville.
Mrs. Craig Lippencott.	Harry Balsley.
K. Brown.	Mermaid.
W. N. Rudd.	Wanamaker.
Sue T. Price.	Mrs. J. G. Whilldin.
Mrs. Jerome Jones.	Ivory.
Ada Leroy.	Col. W. B. Smith.
Pres. Wm R. Smith.	Ed. Hatch.
Golden Wedding.	Geo. W. Childs.
Joey Hill.	The above at 25c. each.

The above at 50c. each.

All other varieties on application.

DAILLEDOUZE BROS.,
Flatbush, L. I., N. Y.

Mention American Florist.

3,000

Fine Stock Plants of

CHRYSANTHEMUMS.

Finest Market and Fancy varieties.

Send for list and prices.

W. C. COOK & CO.,
70th St. and Adams Ave.,
CHICAGO.

CHRYSANTHEMUMS.

STOCK PLANTS.

Ada Spaulding, Bride, Edward Hatch, Eva Hoyt, H. E. Widener, Hicks-Arnold, Ivory, Jessica, Kioto, Mrs. R. Craig, Mrs. L. C. Madeira, Mrs. Marin Simpson, Mrs. J. G. Whilldin, Mrs. Irving Clark, Minnie Wanamaker, Marguerite Jeffords, Mermaid, Tuxedo, at 25 cents per plant.

Anna Dorner, Etoile de Lyon, Gloriosum, H. Cannell, John Goode, Lillian Bird, Louis Boehmer, La Perle de Sole, Mrs. Langtry, Mrs. Lay, Mary Wheeler, Robt. Bottomley, Violet Rose, at 15 cents per plant.

MRS. EUGENIA T. POVALL, Booneville, Miss.

You Will all Want

The New Yellow Coleus GOLDEN CROWN,
As it takes all other yellows down;
And will soon be all the go,
Because so very easy to grow.

There is nothing Pale or Weak about it. You can't afford to run without it: $5.00 per doz. Orders booked now for delivery November 1st, or as soon as ready. Or Gibson's beautiful scented Hybrid Pansies, 2000 seeds $1.00. Or the finest Double Fringed Petunia (Dreer's Strain), hybridized by hand, 1000 seeds $1.50. Snow Crest Daisy, $5.00 per 100. Other specialties later. Or extra large mixed Freesia Bulbs, $1.00 per 100; 2nd size 50 cts., and small bulbs 25 cts. per 100. Cash with order please.

Address J. C. GIBSON, Woodbury, N. J.

Mention American Florist

St. Paul.

Prices are not as good as in former years, but as there is an abundance of stock the amount of sales will be as large or larger than in former years. Roses are abundant and cheap, though no cheaper than in former years. We have not heard of any going to waste. Beauties are in good demand, retailing readily at $3 to $4 per dozen. May & Co. have a very fine house of Beauties and are just now cutting large quantities of them.

Your correspondent recently paid Mendenhall's conservatories, Minneapolis, a visit. They are situated near the heart of the city, in the finest residence portion, and are well equipped for carrying on a first class trade such as they now enjoy. They are especially well constructed and well ventilated, having in use the familiar "meat saw" system, which our friend Carmody sings the praises of. Their mums are in all their glory and were fully a week ahead of St. Paul stock. There is a large collection of azaleas in the houses and when the proper season arrives Allison will have quite a little show of them all his own. They also have a fine collection of ferns and palms. Their roses are off crop now, having a breathing spell while their sister mums put on their gay attire. In addition to these houses Mendenhalls have a row of eight in the suburbs devoted principally to roses, the whole constituting the largest area of glass in the northwest. Our Minneapolis brethren would do well to imitate their leader in the construction of their houses, as no expense has been spared to make them durable as well as practical.

Not many hybrid perpetuals are grown by our florists, and more's the pity. With an ever-increasing demand for this class of roses our florists should be alive to the exigencies of the case and supply the demand at least, and make greater demands if possible. The public need to be educated to appreciate beautiful things in nature as well as in art, and if more attention was paid to hardy herbaceous plants, perennials, roses and the like by our florists a demand would be created, homes beautified and pockets enriched.

Trade has been fairly good lately. The Charity Ball called for a large number of flowers, and it was especially remarked that "mums" were in greater demand than roses, quite an unusual thing with the swell crowd. The popular flower, however, seems to gain popularity each season and has not yet attained its destiny.

Two of the larger department stores engaged in a little rivalry recently, the one selling nice pot plants at 10 cents each or 3 for a quarter. The crowd was great and the mums were all gone before 9 o'clock a. m. As many went later purposely for the plants, but were turned away disappointed, the florists reaped a good trade from them.

Roses are abundant and cheap. We never saw finer ones than are now being cut. Beauties continue in good demand, with Meteors a good second.

Swanson scored one victory at Chicago and all Saintly City floristsshould rejoice with him. We were sorry to learn that no roses were sent for competition. We are confident that Minnesota beats the world for roses grown under glass.

We notice a few Romans and narcissus in bloom, hardly enough, however, to determine what they will bring in the market. Some Harrisiis are well advanced and should make splendid blooms for Christmas. FELIX.

HOLLY.

It is conceded that the successful delivery of perishable stock in the best condition exactly when demand is active is secured only as the result of considerable experience and close study of all the controlling conditions. During the past ten years we have studied these conditions and have the experience. We have faith that we can supply "First-Class Stock on Time," and to prove our faith by our works, on all orders given us **in season, we will Guarantee arrival** or no pay. We attempt no competition in price with stock which has never yet arrived, or—arrived after Xmas.

"A Case of Holly in front of the store is worth four (4) on the cars."

Bouquet Green.

Mild weather has greatly facilitated the gathering of this stock, and prices are now EASIER.

Write or wire us for latest price if you are in the market to buy.

J. C. VAUGHAN,

New York. CHICAGO.

DOES IT PAY?

to wait till the last moment.

NO! Then order your

Bouquet Green, Cut Ferns, Sphagnum Moss, Xmas Trees, Holly, Festooning, and Xmas Green of all kinds. ▲ ▲ ▲ ▲

And do it early. Write for prices—low as the lowest. A 1 goods, and the only place in the WORLD where you can ALWAYS get them.

H. E. HARTFORD, 18 Chapman Place, BOSTON.

Bouquet Green and Holly.

EVERGREEN WREATHING IN TWO GRADES.

☞ Fine Stock at Bottom Prices. . . .

W. W. BARNARD & CO.

6 & 8 N. Clark St., CHICAGO.

FLOWER SEEDS

My Trade List of the Choicest and Most Desirable

KINDS FOR Fflorists

▪ NOW READY. ▪

Send for **FREE** copy, also send 6 cents in stamps for sample packet of **Royal Show Pansies,** that you may test them along side the strain that you are now growing. **It will surprise you.**

MISS C. H. LIPPINCOTT, 319-23 Sixth St. S. Minneapolis, Minn.

CLEMATIS.

Large flowering, colors in variety, double and single, strong blooming plants. Plenty of Jackmanni and Henryi, best purple and white, $3.00 per dozen; $20.00 per 100. Send for list.

CYCLAMEN persicum splendens, blooming bulbs, $8.00 per 100.

Snowflake Daisy, double white, $1.00 per 100.

Longfellow Daisy, double red, $1.00 per 100.

F. A. BALLER, Bloomington, Ill.

Always mention the American Florist when writing to advertisers.

Rooted Cuttings

COLEUS, 10 sorts, **60c. per 100**

BY MAIL.

SAMPLE DOZEN, without names, mailed for 10 cts.

S. O. STREBY,

Lock Box 77,

UPPER SANDUSKY, OHIO.

PALMS.

150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

Address **GEORGE WITTBOLD,**

1708 N. Halsted St., CHICAGO.

When writing to any of the advertisers on this page please mention the American Florist.

WE TOLD YOU SO!

BAYERSDORFER
CANNOT BE BEATEN.

Once more a First-Class Certificate of Merit, at the

Chrysanthemum Show
and Kindred Trades Exposition in NEW YORK CITY,

—FOR—

A FINE DISPLAY OF

FLORISTS' SUPPLIES.

If you will handle our goods you will have no cause to complain of hard times.

H. BAYERSDORFER & CO.,
56 N. 4th St.,
PHILADELPHIA, PA.

☞ WHOLESALE ONLY. . . .

Medal Awarded
at World's Columbian Exposition to

ERNST KAUFMANN & CO.,
113 N. 4th St., Philadelphia, Pa.

FOR

METALLIC DESIGNS, WHEAT SHEAVES, CELLULOID BASKETS AND POT COVERS, and all Florists' Supplies

HUNTINGTON SEED CO.
Florists' : Supplies,
66 E. WASHINGTON ST., INDIANAPOLIS, IND.

Standard Flower Pots, Dried Grasses, Fancy Baskets, Metal Designs. Trade Catalogue mailed free.



P. SEBIRE & SONS,
Nurserymen, USSY, Calvados, FRANCE.

A general assortment of Fruit Tree Stocks, such as Apple, Pear, Myrobolan Plum, Mahaleb and Mazzard Cherry, Angers Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, etc. The largest stock in the country. Prices very low. Packing secured. Catalogue free. Send for quotations before placing your order elsewhere. Agents for U. S. America and Canada.

C. C. ABEL & CO., P. O. Box 920, New York.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Immortelles. Cape Flowers.

At this time of the year, as the trade are well aware, the demand for

IMMORTELLES AND CAPE FLOWERS IS ENORMOUS,

and we are now in the front ranks, with an immense stock of both, in all colors, at very low figures. And you would do well to get our quotations on same.

OUR STOCK OF

FLORISTS' SUPPLIES

is complete in every detail, and all orders receive prompt attention.

☞ **Get our Catalogue and send a trial order.**

MARSCHUETZ & CO.,
23 & 25 N. 4th St., PHILADELPHIA.

BOSTON FLORIST LETTER CO.,
13 Green Street, BOSTON, MASS.
Address all correspondence to 1 Music Hall Place.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1½-inch and 2-inch, $2.00 per 100. Patent fastener with each letter.

With orders for 500 letters we give away a nicely stained and varnished box. See cut in next week's American Florist.

Our letter is handled by all the wholesalers in Boston.

AGENTS: A. Rolker & Sons, New York; Marschuetz & Co., 25 N. 4th Street, Philadelphia, Pa.; F. E. McAllister, 22 Dey St., N. Y.; Ernst Kaufmann & Co., 113 N. 4th St., Philadelphia, Pa.; H. Bayersdorfer & Co., Philadelphia, Pa.; A. D. Perry & Co., 33 Warren St., Syracuse, N. Y.; A. C. Kendal, 115 Ontario St., Cleveland, O.; E. H. Hunt, 79 Lake St., Chicago; Wisconsin Flower Exchange, 131 Mason St., Milkwaukee, Wis.; H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.; T. W. Wood & Sons, 6th and Marshall Sts., Richmond, Va.; Jas. Vick's Sons, Rochester, N. Y.; Dan'l B. Long, Buffalo, N. Y.; C. A. Kuehn, St. Louis, Mo.; C. F. Huntington & Co., Indianapolis, Ind; Z. De Forest Ely & Co., 1024 Market St., Philadelphia, Pa.; Portland Seed Co., 171 2nd St., Portland, Oregon.

J. A. Simmers, Toronto, Ont., Agent for Canada.

BARGAINS,

In these plants, to move quickly. I need the room.

Nice Primroses, single, from finest seed, Per 100
3-inch pots..... $5.00

Coleus, splendid plants from 2½-in. pots, including Golden Bedder, Verschaffeltii, and other good varieties..... 2.00

Rooted Cuttings Coleus, splendid asst. .50
" " **Geraniums,** Mme. Salleroi. 1.00
" " **Geraniums,** all labeled, best bedding sorts... 1.25

Some nice field-grown Carnations still left.

2000 Portia, fine, strong plants..... 5.00
1000 Fred. Dorner, fine, strong plants..... 5.00
300 Garfield, medium size, but good..... 5.00
300 Lizzie McGowan, medium size, but good..... 4.00
200 Tidal Wave, medium size, but good..... 4.00

Farleyense Fern Plants, nice vigorous plants, from 3-inch pots, 25c. each; $2.50 per dozen.

Stock Plants Chrysanthemums, in good assortment, including most all the new varieties, 10 for $1.00. 25 plants at 100 rate. Address

N. S. GRIFFITH, Independence, Mo.

Independence is well located for shipping, being 8 miles East of Kansas City, Mo.

Mention American Florist.

Association "Flora"
BOSKOOP, HOLLAND
NURSERIES.

Roses, Clematis, Shrubs, Azaleas, Palms, Herbaceous Plants, Bulbs, Etc.

Catalogue on Application.

P. OUWERKERK,
206 Cambridge Ave., JERSEY CITY, N. J.



Florists' Pins
Glass Heads, in Black or White.

PRICES:

1,	1½,	2,	2½,	3.	3½,	4 inches,

50c, 75c, $1.00, $1.25, $1.50, $1.75, $2.00 per 1000

For Sale by

August Rolker & Sons, New York.
H. Bayersdorfer & Co., Philadelphia.
N. F. McCarthy & Co., Boston.
E. H. Hunt, Chicago.
J. C. Vaughan, Chicago.
W. Ellison, St. Louis.
E. W. Crook, San Francisco.
S. Tidy & Son, Toronto, Ont.
Edw. Mullin, Kingston, Ont.

AUG. F. BRABANT, Manufacturer,
54 Warren Street, NEW YORK.

TO FLOWER AND FRUIT GROWERS.

We offer **Muriate Potash, Nitrate Soda, Bone Black,** and all

Agricultural Chemicals,
Fungicides and Insecticides,

either crude or combined by standard formulas, in large or small lots, at lowest wholesale prices. **Ground Tobacco Stems**—Flower Fertilizer, put up in small packages for retail trade.

W. S. POWELL & CO.,
Fertilizer Manufacturers, **Baltimore, Md.**

Verbenas
SPECIAL OFFER. Per 100 Per 1000

Unsurpassed Mammoths,	2¼-inch pots,	$3.00	$25.00
" "	rooted cuttings,	1.25	10.00
General collection, named,	" "	1.00	8.00
" "	" 2¼-inch pots...	2.50	20.00
H. P. Roses, dormant, strong		6.00	75.00
Tea "	"	6.00	50.00
Forcing "	3-inch pots, "	6.00	50.00

WOOD BROTHERS,
Fishkill, N. Y.

Toronto.

We have been favored this week with a little cold snap, but it is mild and balmy again to-day. "Old probs" has, however, this morning given us to understand that strong northwest gales, snow and cold, are on the way. We trust that a kind Providence will not let them loose in Toronto during chrysanthemum show week.

Entries have come in very well and a good show is assured in spite of its lateness and the prophecies of some of the knowing ones that there would be no show at all. However, I am convinced myself that it is just a week later than it should be in order to give every one a good chance. The delay, however, was unavoidable as every one knows, so that it is folly to croak until there is some cause for it.

The bloom shipped from Toronto for the World's Fair chrysanthemum show was very unfortunate. Mr. Watkins, of the Horticultural Gardens, shipped a box of magnificent blooms with some fine Daybreak carnations of Manton Bros. on Thursday, the 2nd inst., and we hear since that they were delivered at the World's Fair on Tuesday, the 7th, at 10 a. m., and were immediately sent back to the Art Institute, where when unpacked they were of course found to be entirely useless. Mr. J. H. Dunlop also shipped some cut chrysanthemums, roses and carnations, but they did not arrive in Chicago until Sunday morning in bad condition and a day too late. The duty was paid in advance on both these consignments and every means taken at this end to expedite them. Mr. Watkins feels very sore about it, and justly so I think.

The Canadian Controller of Customs has at the request of the G. and F. Association kindly consented to allow cut bloom for the chrysanthemum show here to come in free of duty if entered by the first day of the show. This piece of news was immediately telegraphed to the horticultural papers. [It appeared in last week's FLORIST.—ED.]

Business has improved a little this week, though there is nothing steady about it yet. The stores are full of chrysanthemums, and some very good ones are to be seen. E.

YOU CAN SAVE MONEY BY PURCHASING, AND GLASS BY USING

Hamilton's Patent Sash Lifter.

The best thing of the kind ever invented for greenhouse use. Send for description and price list.

BAY STATE HARDWARE CO.,
272 Freeport Street, BOSTON, MASS.

Send orders for . . .

CLEAR CYPRESS

Greenhouse Material

from bottom of gutter up.

Correspondence solicited. Estimates cheerfully furnished.

LYMAN FELHEIM, ERIE, PA.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.



EVERGREEN CUT FERNS

ESPECIALLY FOR FLORISTS' USE.

$1.25 per Thousand Ferns.



IN LOTS OF 5,000 AND UPWARDS, $1.00 PER 1000. Ferns furnished the year round. Special attention given to supplying the Wholesale Trade.

BOUQUET GREEN For Holiday Trade, $2.00 per barrel (thirty pounds); or $6.00 per hundred pounds. Special reduction in express rates.

SPHAGNUM MOSS a specialty. Long, clean fibre, dry or green, $1 per barrel, or six bbls. for $5. Write for terms on large lots. Terms cash, or goods will be sent C. O. D.

CHRISTMAS TREES. American White Spruce, much better shape and color than the Blue Spruce, also Balsam Fir from 3 to 30 feet high. Special attention to supplying carload lots. Write for price list and terms.

L. B. BRAGUE, Hinsdale, Mass.

City Stand During the Holidays: 47th St. and Lexington Ave., NEW YORK.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO,

NATURAL GAS MADE GLASS

FOR GREENHOUSES.

Write for latest prices.

HOW TO GROW CUT FLOWERS.

A PRACTICAL TREATISE ON

THE CULTIVATION OF THE ROSE,

And Other Flowering Plants for Cut Flowers, sent to any address upon receipt of $2.00. M. A. HUNT, Terre Haute, Ind.



Pat. 1882, '85, '86, '88, '90, '91.

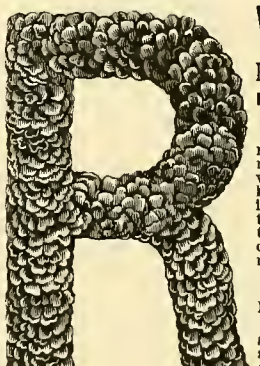
FOR WATER, AIR, STEAM, ACIDS, OILS, LIQUORS, GAS, SUCTION,

And for any and every purpose for which a hose can be applied.

Sizes, ⅛-inch to 42 inches diameter.

The making, vending or use of any Serviceable Armored Wire Bound Hose not of our manufacture is an infringement on one or more of our Patents. The rights secured to us render each individual dealer or user responsible for such unlawful use with all the consequences thereof. For prices and discounts address WATERBURY RUBBER CO., Sole M'f'rs and Owners of all the *Sphincter Grip Armored Hose Patents*, 49 Warren Street, New York.

J. C. VAUGHAN, Agent, CHICAGO.



W. C. KRICK'S

PATENT

Florists' Letters, Etc.

Highest Award wherever exhibited.

These Letters are made of the best immortelles, wired on wood or metal frames having holes drilled in them to insert toothpicks, by which to fasten them in the design. All infringements prosecuted.

2-inch Letters, $3 00 per 100. Postage, 15c. per 100.

Before purchasing send for free sample and Catalogue and compare with any other letter in the market.

W. C. KRICK, 1287 Broadway, BROOKLYN, N. Y.

Agents:—J. C. VAUGHAN, Chicago, Ill.; H. BAYERSDORFER & Co., Phila., Pa.; N. STEFFENS, N. Y.; AUG. ROLKER & SONS, N. Y.; ED. S. SCHMID, Washington, D. C.; JAMES VICK'S SONS, Rochester N. Y.; T. W. WOOD & SONS, Richmond, Va.; J. A. SIMMERS, Toronto, Ont.

CUTS!



WOOD ENGRAVING,
PHOTO-ENGRAVING,
WAX ENGRAVING,
ZINC ETCHING,
HALF-TONE,
DESIGNING.

MANZ & CO.,

183 Monroe Street, CHICAGO. ENGRAVERS.

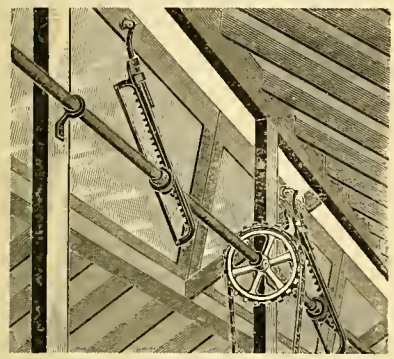
When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

100 % PROFIT and no risk in taking subscriptions for GARDENING from your customers. Write for particulars.

THE GARDENING CO., Monon Bld'g, Chicago.

SEE HERE
BROTHER
FLORIST!

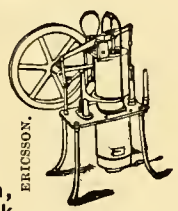
Aren't you tired going through your houses two or three times a day year after year and lifting your ventilating sash one at a time and propping them up with sticks or pots, with a chance of having sash blown off and broken glass to pay for? If you are



We have got just the thing you need, the **NEWEST** and **BEST** thing out. "The New Departure" for **about half** the cost of the old style. Send for Descriptive Catalogue to

J. D. CARMODY, Evansville, Ind.

WATER
For Your GREEN HOUSE, ROSE HOUSE, NURSERY,
Conservatory, Lawn, House, Garden, Stock or any other purpose.
Send for Illustrated Catalogue
OF THE
DE LAMATER-RIDER AND DE LAMATER-ERICSSON PUMPING ENGINE.


ERICSSON.

HOT-AIR PUMPING ENGINE.

Their operation is so simple and safe that a child can run them. They will pump water from shallow streams or any kind of well. They can be arranged for any kind of fuel. Capacity 1,500 to 30,000 gallons of water a day, according to size.


RIDER.

The De Lamater Iron Works,
87 South Fifth Avenue,
NEW YORK, N. Y.



GREENHOUSE HEATING
AND VENTILATING.
Superior Hot Water Boilers.
JOHN A. SCOLLAY,
74 & 76 Myrtle Ave., Brooklyn, N.Y.
☞ Send for Catalogue.

FLORISTS' HOSE,
Made by E. W. Holt, member of the Society of American Florists.
Goodyear Rubber Store,
2 W. 14TH ST. NEW YORK.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

A NEW PLANT TUB.



Received Highest Award at World's Fair, Chicago, 1893.

BE SURE AND CATALOGUE IT.

Price LESS THAN HALF of any other tub on the market.

Dealers issuing catalogues cannot afford to omit this tub. It supplies a long felt want for something neat, durable and cheap. It has steel wire hoops (three times as strong as the flat iron hoop) with welded joints (not riveted as in common ware). These wire hoops are at intervals indented and pressed into the wood. These indentations in hoops besides preventing them from falling off under all circumstances, act also as a spring, expanding or contracting always in accord with the condition of the wood in the tub, so that bursting is impossible. We solicit correspondence from all dealers, and assure you that our prices, and facilities for supplying your wants, cannot help but please you.

AZALEAS.

We have a consignment of plants in various sizes and varieties; they have been carefully potted and stored in a greenhouse of one of our growers. We wish to dispose of them now on terms satisfactory to any one, for immediate delivery or for Easter. This is an opportunity for a store keeper not having any greenhouse room. We will give full description and prices on application. There are not many who can afford to let this chance go by.


AZALEA.

HOLLY.

We have supplied our trade for five years without failing in a single instance to deliver it as we agreed. The quality is as good as grows. Our price is low.

CUT FLOWERS. Our improved method of fixing prices is now fully appreciated by grower and retailers; the consequence is that "The Barrel" is hardly ever used, and "The Fakir" is discouraged. Our lately increased facilities enable us to solicit more business from both grower and consumer. If you are at to great a distance to avail yourself of the advantage of our Milwaukee market, we wish you would write us full particulars, as we are making preparations to extend our usefulness to other localities and will select first such places that show the greatest demand for our services.

Hydrangeas. We wish to purchase 100 good sized plants.

Crotons. We have a good stock of 4-inch pot plants; we will sell cheap or exchange for other stock.

BOUQUET GREEN NOW READY.

WIRE WORK. We make it ourselves and can accomodate you better than ever before.

THE WISCONSIN FLOWER EXCHANGE,
468 Milwaukee St., MILWAUKEE, WIS.

Baltimore.

Fortunately for the peace of mind of the Gardeners' Club the judging of premiums at the show was done by different judges each day—the first day, Messrs. Colflesh, Kift and Smith from Philadelphia; the second, three leading Baltimore artists, Messrs. Fuchs, Dietrich and Tait; the third, Mr. Hale from Washington; and on the fourth day, Mr. Gude, from the same charming suburb.

It is due to the florists who kindly acted to say that the awards made by them were received for the most part in silence, but the work of the artists was apparently not so acceptable, though it would be hard to say what designs of cut flowers are for if not to be passed on in accordance with their artistic merits, i. e., simply on the beauty of form and color embodied in them. No doubt an artistic arrangement of choice flowers will take precedence of a similar arrangement of inferior flowers, but the question is, should a graceful design of inferior flowers rank above a heavier one of flowers of extra quality as individual blooms. On this point there are many opinions in the club and a question in the question box at the last meeting, "Who are the best judges?" brought out some vigorous speeches for and against floral designs being judged solely on their artistic merits, one speaker urging as a reason for not getting artists to judge for us that they "would not think of getting florists to judge their work."

The report of the exhibition committee was, although incomplete, very satisfactory, showing, as it did, a net profit after all expenses were paid, and that in spite of a greatly enlarged premium list, extra expense connected with an individual electric plant and one very rainy day.

Flowers continue a very slow sale; the quantity of chrysanthemums in the market is immense, but prices have not altered materially. Violets are becoming more plentiful and so are roses, and the quality is keeping pace with the increase in quantity.

Mr. M. C. Hantske has taken Galloway & Christie's old store, North Charles street above North avenue.

Librarian Philip Welch sent an invitation to the club to comes and witness it; so the boys all congratulate him and hope his shadow may never grow less, and all his troubles may be little ones.

MACK.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

FLORAL DESIGNS

The Cut Flower Worker's Friend. Fine book of 160 pages. Send **$3.50** for it, to

J. HORACE McFARLAND, Harrisburg, Pa.

STANDARD FLOWER POTS.

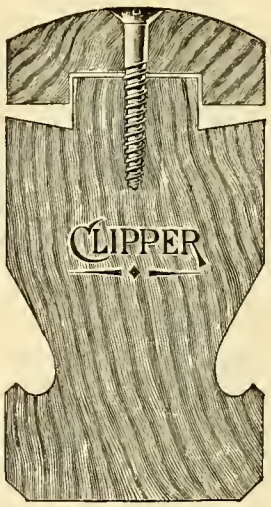
Price List.

2 -inch,	Per 1000 $3.25	7-inch,	Per 100 $ 3.50
2½-inch,	" 3.50	8-inch,	" 5.00
2½-inch,	" 4.00	9-inch,	" 7.50
3 -inch,	" 5.00	10-inch,	" 10.00
3½-inch,	" 7.25	11-inch,	" 15.00
4 -inch,	" 9.00	12-inch,	" 20.00
5 -inch,	" 13.80	14-inch,	" 40.00
6 -inch,	" 22.00	16-inch,	" 75.00

Terms cash, f. o. b. Address

HILFINGER BROS. POTTERY, Fort Edward, N. Y.

August Rolker & Sons, 136 & 138 W. 24th St., New York City, Agents for New York and vicinity.



Mention American Florist.

THE "LOCKLAND" Sash Bars

ARE ALWAYS SATISFACTORY.

This cut represents our improved Clipper Bar for Butted Glass roof—putty to be used under glass only.

GUTTER MATERIAL, RIDGES, SASH, ETC.

The finest CLEAR CYPRESS used.

Write for circulars and estimates. . . .

LOCKLAND LUMBER CO.

Lockland, O.

"Standard" Flower Pots.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Pottery Company,

BRANCH WAREHOUSES: 713, 715, 717 & 719 Wharton St., Philadelphia, Pa

Randolph Ave. and Union St., Jersey City, N. J.

Jackson Ave. and Pearson St., Long Island City, L. I.

STANDARD FLOWER POTS

Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.

A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.

We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

Send for price list and samples and we know you will give us an order.

SYRACUSE POTTERY CO. OFFICE: 403 North Salina Street, SYRACUSE, N. Y.

STANDARD FLOWER POTS.

OLD RELIABLE MAKE OF

ELVERSON, SHERWOOD & BARKER.

Write for Catalogue and Price List.

PITTSBURGH CLAY MFG. CO. New Brighton, Pa.

STANDARD FLOWER POTS

Our new **Pottery,** new **Machinery,** the very **best Clay** in the **Country,** and our new **Patent Kilns,** all combined, make the **best Standard Pot in the market.** Send for price list.

PARMENTER MF'G COMPANY,

GEORGE MESSINGER, Manager. East Brookfield, Mass.

DON'T MISS IT. YOUR CHANCE TO MAKE MONEY WITHOUT ANY SPECIAL EFFORT BY TAKING SUBSCRIPTIONS FROM YOUR CUSTOMERS FOR **GARDENING.**

THE GARDENING CO., Monon Building, CHICAGO.

LITTLE'S ANTIPEST.

—A—

Valuable Discovery of the 19th Century.

SILVER MEDAL AWARDED

—BY THE—

CALIFORNIA STATE FAIR OF 1890.

This preparation Is a sure destroyer of the **Scale, Wooly Aphis** and **Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure** and **Cheap.** No fruit grower or florist should be without it.

Send for Circulars and Price List.

R. W. CARMAN, General Agent,
291 AMITY STREET,
FLUSHING, Queens, Co., N. Y.

Increase Your Business

by fostering an interest in plants and flowers among the people in your vicinity. You can best do this by getting subscribers to

GARDENING . . .

which tells people how to get the most satisfaction out of their gardens, and stimulates them to enlarge and extend their gardening operations.

$1.00 A YEAR is the subscription price of this paper, which is issued twice a month, is handsomely and truthfully illustrated, is thoroughly practical, absolutely free from wind and gush and grinds no axes for anyone.

SPECIAL LOW RATE to florists who will act as agents. We want an agent in every city and town in America. Write for terms now to

THE GARDENING CO.
Monon Building, CHICAGO.

THE CHAMPION Automatic Ventilator.

The cheapest, easiest to operate, and by far the **best machine** in the market. Don't buy a Ventilator until you have seen my illustrated descriptive circular, which will be sent you free, giving prices, etc. Also **Champion Soil Pulverizer and Sifter.**

Address, **E. E. WOLF,**
Box 114. SPRINGFIELD, O.

THE PERFECT DRAINAGE

BENCH TILE

For circulars, etc., address

W. P. Wight, Upland Green Houses,
Send your business card. MADISON, N. J.

CATALOGUE PRINTING. ELECTROTYPING.

Done with expert ability for Florists, Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.
. . . HARRISBURG, PA.

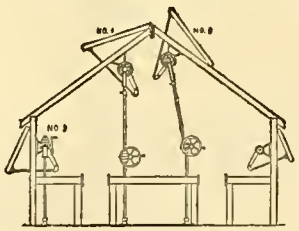
GLASS. ROCK BOTTOM PRICES. Send for Estimate. Satisfaction Guaranteed.
REED GLASS CO.,
65 Warren St., and 46, 48 & 50 College Place, New York City.

VICTORY! VICTORY! VICTORY!

The only Certificate of Merit awarded for ventilating apparatus at the St. Louis Convention was to the

POPULAR STANDARD VENTILATING MACHINE

The florist's friend in working and prices.



No repairs for 5 years. no chains to break as is the result with others.

Opens Sash uniform on 100 foot houses. A new device.

Send for Catalogue and Estimates.

E. HIPPARD, Youngtown, Ohio.

ELECTROTYPES

of VEGETABLES, FLOWERS, ETC.
VILMORIN, ANDRIEUX & CO., Seed Growers, Paris.
Apply for Catalogues. Novelty sheet now ready.

Complete Stock in New York

—WITH—

THEO. PABST & CO., 26 Barclay Street.

D. H. ROBERTS,

159 and 161 S. Fifth Avenue, - NEW YORK,

NATURAL GAS MADE GLASS,

FOR ROSE HOUSES, CONSERVATORIES, ETC., ETC.

☞ Look at our WORLD'S FAIR EXHIBIT in Horticultural Building.

FRENCH GLASS

For CONSERVATORIES, ROSE HOUSES, Etc. Etc.

VANHORNE, GRIFFEN & CO.,

Importers of PLATE and WINDOW GLASS. Manufacturers of BENT GLASS and FRENCH MIRRORS.

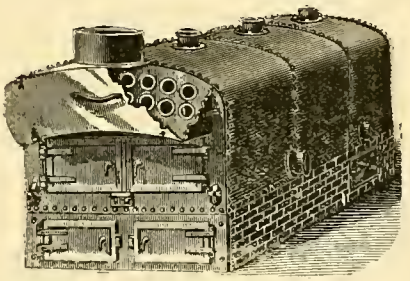
131-133-135-137 FRANKLIN STREET, NEW YORK.

Note—Imported Glass is used in the best grade of Greenhouse building

KROESCHELL BROS.
IMPROVED

Greenhouse Boiler,

41 to 55 Erie St., CHICAGO.



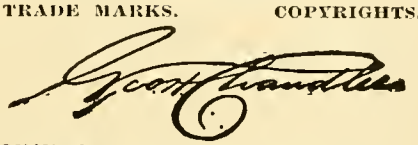
Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

EVANS' IMPROVED

CHALLENGE VENTILATING APPARATUS

Write for Illustrated Catalogue.
QUAKER CITY MACHINE WORKS, Richmond, Ind.
Mention American Florist.

TRADE MARKS. COPYRIGHTS.



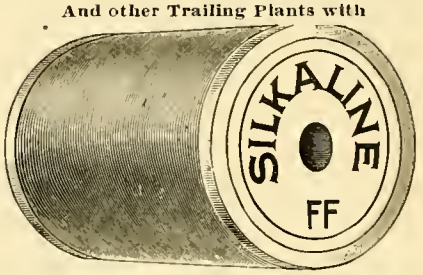
SOLICITOR OF U. S. AND FOREIGN PATENTS.
Atlantic Building, Washington, D. C.
(Send sketch or model for free examination as to patentability.

HAIL

LOCK THE DOOR BEFORE THE HORSE IS STOLEN.
DO IT NOW.
JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

STRING SMILAX

And other Trailing Plants with



JOHN C. MEYER & CO.,
289 Devonshire St., BOSTON, MASS.
For sale by all leading Florists' Supply Houses.

J. N. STRUCK & BRO.

Manufacturers of

• CYPRESS •

Greenhouse Material,

LOUISVILLE, KY.

GURNEY Hot-Water Heaters FOR Greenhouses.

Send for a copy of our book "How best to heat our houses."

GURNEY HOT-WATER HEATER CO.
163 FRANKLIN ST., BOSTON.

Branch Office: 59 Wabash Avenue, Chicago, Illinois. Selling Agencies: Johnson & Co., 71 John St., New York City. J. C. F. Trachsel, 246 Arch St., Philadelphia

Please mention the AMERICAN FLORIST every time you write to an advertiser.

Index to Advertisers.

Abel C C & Co.....383
Adv. Rates, etc.....376
Baller F A 382
Barnard W W & Co ..382
Bayersdorfer H & Co..383
Bay State Hdw Co.....384
Berger H H & Co.....378
Bonsall Jos E & Son...376
Boston Letter Co 383
Brabant Aug F.....383
Brague L B.....384
Brauer & Richter.... 381
Brown & Canfield.. ...380
Burki Fred.. 381
Burns & Raynor.....377
Burrow J G.....380
Burton John..... 380
Carman R W.... 387
Carmody J D..... 385
Chaapel Harry.....381
Chandlee Geo H.....387
Cook W C & Co. 381
Corbrey & McKellar..376
Currie Bros..... 378
Dailledouze Bros 381
Deamud J B & Co..... 376
De Lamater Iron Wks.385
Dillon J L.....381
Dreer H A 380
Edwards S & Son.....381
Elliott W H.....376
Ellison Wm.... 376
Ely Z De Forest & Co..378
Felheim Lyman.....384
Forstermann I. 381
Gardening Co The.... 381
Gibson J C.....381
Goodyear Rubber Store 385
Graham Hugh.. 381
Griffith N S..... 383
Gurney Heater Co 387
Hall Ass'n 387
Hancock Geo 380
Hart James.....377
Hart Michael A.....377
Hart & Crouse.....388
Hartford H E.....382
Herr Albert M.....380
Hews A H & Co.....386
Hilfinger Bros.....386
Hippard E.....387
Hitchings & Co.....388
Hooker H M Co.....384
Horan Edw C. 377
Hulsebosch Bros.....378
Hunt E H..... 377
Hunt M A.....380 384
Hunter Frank D.....377
Huntington Seed Co...383
Irvine John Co.....380
Jennings E B.....380
Joosten C H.....378
Kaufmann Ernst & Co.383
Kelsey Harlan P.....379
Kennicott Bros Co.....377
Knopff Oscar & Co.....378
Krick W C.....384
Kroeschell Bros . ..387
Kuehn C A.....376
Kuhl Geo A. 376
La Roche & Stahl.....376
Lippincott Miss C H....382
Lockland Lumber Co...386
Long Dan'l B.....376
Lonsdale Edwin.....378
Lord & Burnham Co...388
McCarthy N F & Co....377
McFarland J H.....386
McFarland J H Co.....387
Manz J & Co.....384
Marschuetz & Co.....383
Meyer John C & Co ...387
Michel Plant & Bulb Co 380
Millang Bros.....377
Moffatt G J.....378
Moninger Jno C 388
Murray S.....379
Niles Centre Floral Co 377
Ouwerkerk P.....383
Pabst Theo & Co.....387
Parmenter Mfg Co.....386
Pennock C J.....380
Pennock Sam'l S.....376
Pierson F R Co..... 376
Pittsburg Clay Mfg Co.386
Povall E T 381
Powell W S & Co..... .383
Quaker City Mach Co..387
Randall A L 377
Reed Glass Co.....387
Reed & Keller.... 383
Roberts J H.....387
Roehrs Theo..... 377
Rolker A & Sons.....378
Sander & Co. 381
Scollay John A. 385
Scott Alex.....381
Sheridan W F.....377
Sherwood Hall Nur Co.378
Siebrecht & Wadley....381
Situations, wants.....379
Spooner Wm H.....380
Streby S O 382
Struck J N & Bro.....387
Sunderbruch H L.....376
Sutherland Geo A 377
Syracuse Pottery Co...386
Tricker Wm..... ..381
Ulbricht F J 381
Van Horne Griffen & Co 387
Vaughan J C..... 382
Waterbury Rubber Co 384
Weathered's Sons T W.388
Weeber & Don.....378
Welch Bros.....377
Whilldin Pot Co 386
Whitehead Geo B.....380
Whitton Stephen.....379
Wight W P... 387
Wisconsin Flower Ex..385
Wittbold Geo.ge.....382
Wolf E E 387
Wood Bros.....383
Woodruff W B.....380
Young John.....377
Young Thos Jr.....376

TRENTON, N. J.—C. Ribsam & Sons formally opened their new store on November 2, with a reception to their friends and customers, of whom there must have been about eight to ten thousand attending during the afternoon and evening. The place was beautifully decorated with chrysanthemums and palms. A table decoration for a dinner party was one of the principal features, the flowers used being La France, carnations, and lily of the valley, with festoons of smilax and asparagns, making a very attractive decoration. The visitors received each a boutonniere as a souvenir.

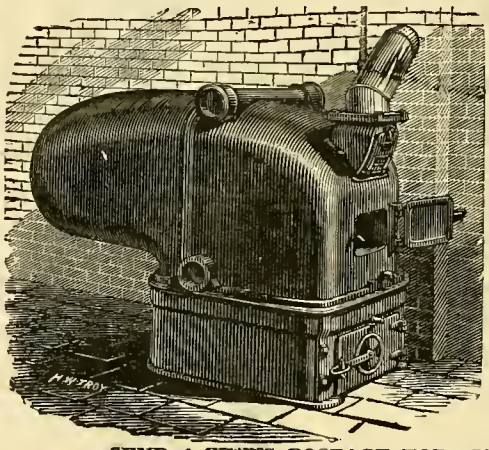
CYPRESS GREEN HOUSE MATERIAL

HOT B... AND VENTILATING SASH

CYPRESS SASH BARS

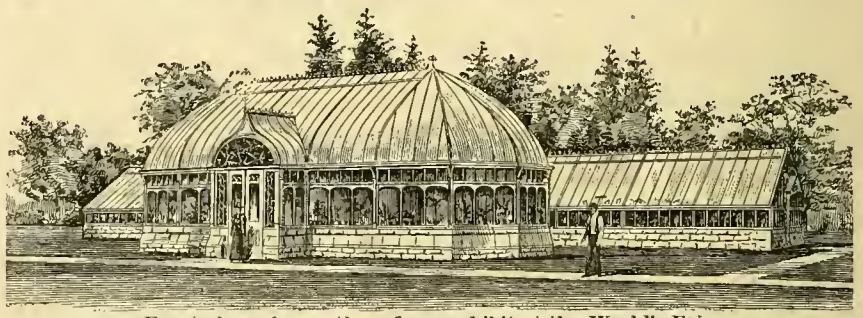
JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

GREENHOUSE HEATING AND VENTILATING
Horticultural Architecture and Building.



HITCHINGS & CO.
Established 1844.
233 Mercer St., New York.
FIVE PATTERNS OF BOILERS.
NINTEEN SIZES.
Perfect Sash Raising Apparatus.
Rosehouses, Greenhouses, Etc., of Iron Frame Construction, Erected complete, or the Structural Iron Work shipped ready for erection.
Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Top.
SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.

LORD & BURNHAM CO.
Horticultural Architects and Builders,
STEAM AND HOT WATER HEATING ENGINEERS.
☞ Plans and estimates furnished on application.

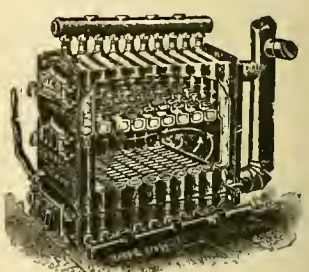


Front view of a portion of our exhibit at the World's Fair.
. . . SEND FOUR CENTS POSTAGE FOR ILLUSTRATED CATALOGUE. . . .
LORD & BURNHAM CO., Irvington-on-Hudson, N. Y.

ROYAL HEATERS

The right kind of Boiler in a greenhouse means success with flowers.

HART & CROUSE,
UTICA, N. Y.



THOS. W. WEATHERED'S SONS,
INCORPORATED.
Horticultural Architects and Hot Water Engineers
Send for Catalogue, enclosing 4 cents in stamps.
No. 244 Canal St., NEW YORK CITY.

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. IX. *CHICAGO AND NEW YORK, NOVEMBER 30, 1893.* *No. 287*

THE AMERICAN FLORIST

Copyright 1893, by American Florist Company. Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.
322 Dearborn Street, Chicago.

Subscription, $1.00 a year. To Europe, $2.00.

Address all communications to

AMERICAN FLORIST COMPANY,
P. O. Drawer 164, CHICAGO.
Eastern Office: 67 Bromfield St., Boston.

SOCIETY OF AMERICAN FLORISTS.

WM. R. SMITH Washington, D. C., president; PROF. WM. TRELEASE, St. Louis Mo., vice-president; WM. J. STEWART, 67 Bromfield St. Boston, Mass, secretary; M. A. HUNT, Terre Haute, Ind., treasurer.

The new officers, to be installed Jan. 1, 1894, are: J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; secretary and treasurer the same as for 1893. The next annual meeting will be held at Atlantic City, N. J., August, 1894.

CONTENTS.

Greenhouse flowering plants 389
Packing and shipping cut flowers 390
Wedding decorations (3 illus) 390
Francis Parkman 390
Indianapolis floral festival 391
Carnations—Notes 392
—Carnation Portia 392
Chrysanthemum shows—Toronto 392
—Louisville, Ky 393
—Frederick, Md 393
—Oshkosh, Wis 394
—Terre Haute, Ind 394
Princess of chrysanthemums 394
Chrysanthemum Mrs. Craige Lippincott 394
New York 394
Philadelphia 394
Buffalo 395
Chicago 396
Washington 396
Boston 396
St. Louis 396
Pittsfield, Mass 397
Milwaukee 397
News notes 398
The nursery trade 400
The seed trade 402
—Review of N. Y. bulb market 402
News notes 404
Baltimore 406
Liability for injury from escaping gas 408
Milwaukee 410
Foreign notes 410

LINCOLN, NEB.—Chapin Bros. purchased a block of five acres of land near the city last summer and have erected on same eight houses, of which two are 18x100, three 10x90, one 10x90, one 11x90, one 8x100. Also packing room and office 16x100. Heating is by steam. The establishment is very conveniently arranged, and a team can be driven right through the potting room and by the boiler pits for the carrying in or out of soil, fuel, etc. This is the first greenhouse plant built outside of the city limits, but being on an electric car line communication is quick. They still retain their 16th street place as before.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Greenhouse Flowering Plants.

The plants that I will mention are not suitable for the florist to grow for cut flowers, but any florist who has a trade among amateurs who have a greenhouse will find them useful, for they are easily grown, and make showy plants and serve to brighten up a collection, for in an amateur's greenhouse there should be something in flower at all times, and the old fashioned greenhouse plants just fill the bill. As it is now with cut flowers bringing such low prices at wholesale every florist, where it is possible, if his location is suitable for it, and if his establishment is close to a city or large town, or in a good suburban neighborhood, should try to work up a retail trade both in flowers and plants, and to do that he must not confine himself to bedding stuff for flowering pot plants, and to a few palms and ferns for decorative use; and in the winter after his chrysanthemums are over he has not got anything in the shape of a flowering plant to sell to a customer who has a conservatory unless it is a lily, azalea, genista, calceolaria, primula, cyclamen or some old plants of bedding stuff that have been carried over. He should have a small lot of greenhouse flowering plants, and they will prove profitable to him. As it is one seldom sees anything of this sort except on a private place of good size, or in the houses of a florist who does a catalogue trade in stove and greenhouse plants, and the average florist knows nothing of them unless he is an old plantsman.

Francisceas. These are very beautiful plants and very easily grown. They do best in a mixture of peat and loam, with a fair amount of sand added to it. The plants should be potted as soon as they are done flowering, and grown on in a warm house, given a liberal supply of water both at roots and foliage. When the young shoots have made five or six leaves the tops should be pinched off. This treatment should be continued until flowers show, when they should be kept cooler and not syringed as much as before. They are all handsome shrubs with large purple or violet sweet scented flowers. The best are F. calycina major, F. eximia, F. hydrangæformis, F. latifolia and F. Lindeniana.

Habrothamnus. These are very handsome Mexican shrubs of easy growth and flower very freely; they are red or purple flowering, and the flowers are produced in racemes. H. elegans is of climbing habit and is very useful for covering a pillar or wall. H. anbletia, H. corymbosus and H. Newelli are the best of the species.

Kalosanthes coccinea. This fine old succulent plant is one of the most gorgeous colored flowering plants in cultivation. The large umbels of flowers are of the most brilliant scarlet, and is sure to call attention to it. There are many varieties, some red, some red and white, and others flesh color.

Aphelandras. Among these we find some of the brightest winter flowering plants, and with proper attention can be made into handsome bushes. They like a warm house and plenty of water when growing. After flowering they should be kept as dry as possible without shrivelling. At the time of starting into growth they should be cut back to within two or three buds of the old wood, or the plants will become naked. The flowers are in spikes, mostly orange and scarlet, and stand well above the foliage. A. aurantiaca, A. Roezlii, A. Porteana are the best of the old varieties. A. Louisiæ and Macedoana, two of the new and expensive ones, are very fine, having handsomely marked foliage.

Among the bromeliads there are some plants of easy growth that will be found useful. The flowers are of rich colors and gorgeous appearance, and the foliage is in many of them very ornamental. Many of them are when not in flower of very odd and striking appearance. Among this order are found the following: Æchmea, very handsome plants with graceful foliage and flowers on erect scapes, which are in most cases bright red or scarlet bracts and the flowers blue or purple. Bilbergia, handsome plants of easy growth with light panicles of flowers, some red, some scarlet and some blue. Gussmania, plants somewhat like tillandsias, but of ornamental foliage and pretty flowers. Nidularium, these are handsome bromeliads and very useful for conservatory decoration. Tillandsias are a large genus of the most useful greenhouse decorative plants. Many have very handsome foliage and the flowers are red or blue and very handsome. The vriesias are very handsome, both in flowers and foliage, but now included as synonymous with the tillandsias.

Dalechampia Roezliana rosea. This is a very handsome stove shrub. It owes its beauty to the bracts, not to the flowers. The bracts are large and beautiful carmine color; it is very free flowering. It is of easy growth and likes rather a warm house. It should be potted in loam and peat with a good portion of sand. If a good sized plant is wanted the flowers must be kept picked off and the plant potted on as often as it becomes rootbound.

The epiphyllums, or crab's claw cactus, are very handsome decorative plants; as small plants grafted on stems six inches to a foot high they make good house plants. They succeed well on their own roots and make good basket plants, using a wire basket and putting the plants through the sides and bottom of the basket. They grow much faster when grafted on the Pereskia aculeata, or on Cereus speciossimus; the latter makes the

best stock, especially if wanted to make a very large plant. When growing they want a fair amount of water, but when growth is finished should be kept dryer.

The eranthemums are small growing plants with pretty flowers and well colored foliage, and are useful for winter flowering. They are easily grown. The best are E. alho-marginatum, E. igneum, E. tuberculatum and E. sanguineolentum.

Euphorbia splendens is a gorgeously colored flower, very free and makes a good pot plant. It requires the same treatment as a pot poinsettia.

Gesneras. These plants always call attention, being very showy with their bright colored flowers and their rich velvety foliage, the foliage being in the different varieties of all shades from light green to rich crimson. Gesneras are tuberous rooted, and after flowering must be attended to and given occasional waterings with weak manure water. When the foliage begins to decay give less water, and as soon as growth is finished it must be withheld entirely. Then put the pots away in a cool dry place. When required to start in growth it is a good plan to start in the old soil, then shake out and repot. Gesneras can be propagated by divisions of the tuberous root, also by cuttings, which root readily in bottom heat. When increased by cuttings they should be taken off early in the season to give the plant time enough to make a tuber, for when no tubers are formed the plant dies when it goes to rest. When growing they like plenty of water at the roots, but they must never be syringed at all; the foliage must be kept dry.

Meyenia erecta is another beautiful plant, flowering at all seasons of the year. The flowers are dark blue, trumpet shaped, with a rich orange throat. They do best in a mixture of peat and fibrous loam. A slight rest after finishing their growth is necessary, and all coarse strong shoots should be cut out in their young state. There is a white variety of this plant, but it is not common.

Lasiandra macrantha is a beautiful plant bearing large flowers of most intense deep purple. There are two varieties of this plant, one flowers freely when small, and the other is probably a seedling which has got mixed up with the original; it is much inferior to it, the flowers are small and it does not bloom till it is a large plant.

Linum trigynum is a dwarf shrub of free growth with racemes of bright yellow flowers; it flowers all winter.

Tabernæmontana coronaria flore pleno is a compact growing shrub, with pure white double flowers; it somewhat resembles the gardenia and requires the same treatment. JAS. S. TAPLIN.

Madison, N. J.

Packing and Shipping Cut Flowers.

BY CHAS. M'KELLAR.

[*Read before the Chicago Florist Club Nov. 23.*]

The subject may be best covered by dividing into three classes, 1st, that by the home growers, the ones usually so closely related to a large market basket; 2nd, growers shipping to the city market from points two to five hours away; 3d, the wholesale dealers.

The first class, instead of baskets and clumsy boxes, should use card board boxes usually termed rose boxes. These are made of good stiff card board and measure 18 inches long, 9 inches wide and 4 inches deep, and cost from $16 to $20 per thousand according to the grade of card board used. Many growers imagine the cost of these boxes a useless expenditure, but should they use such, and use them properly, the increase in their returns would soon convince them that they were an excellent investment. Before packing stock should be sorted into firsts and seconds and allowed to stand in jars of cold water in a cold cellar for a couple of hours or more. When ready to pack the boxes should be lined with rag or straw paper, sprinkled lightly but not sufficiently to allow the card board to become saturated, then 25 to 100 roses, according to size, should be packed carefully in each, counting carefully, and marking the number on the cover of each box. The buds should be placed so as to present the best possible appearance when the box is opened. If the growers would watch the wholesalers' customers make their selections they would see the importance of packing in the manner described, for such boxes of graded flowers are always first sold, and often in this way the full box is sold where the buyer may have originally intended to take only a smaller number of that variety. And where a grower is conscientious in grading and counting his flowers his stock soon gets a reputation with buyers and consequently meets with a more ready sale. A very great advantage of the boxes is that constant handling of the flowers is avoided, and we all know that every rehandling of the flowers does them damage and lessens their market value. Growers sending in their stock packed in bulk in large wooden boxes should remember that the wholesaler hasn't the time during morning sales, which are now done in a very short time, to sort such stock, and during the rush the counting out of bulk stock is pretty apt to result in a few broken buds, which are thereby rendered worthless, the value of which would have paid for the card board boxes which would have prevented such loss and also have helped the salability of the stock. Carnations, valley, violets, Romans and other flowers tied in bunches of 25 can be packed in larger boxes, as they sell by the bunch, causing rehandling necessary. The bunches of such flowers should be tied close to ends of stems, which ought to be kept even, and not the flowers as many practice.

Growers of the second class should pack stock in zinc, basket, or wooden trays, the former being preferred on account of the zinc retaining the moisture, while the wood absorbs it. These trays are shipped in strong wooden or leather cases, holding four to five trays each. Not over two layers should be packed in a tray. A small quantity of ice on ends of stems is an advantage in the longer shipments. The wholesaler can display and sell stock from these trays with but very little handling if varieties are kept separate. The shipping cases and basket trays manufactured by W. P. Wight, of Madison, N. J., are pronounced by all who have used them as the best and most practicable. Although rather expensive for the ordinary growers they undoubtedly pay for themselves in a very short time.

In regard to the handling and packing of the flowers by the wholesalers. Growers should manage by all means to get their stock into the wholesaler's hands early in the morning. The trade in the Chicago market now opens at 7 o'clock and all stock, or the bulk of it, should be on hand at that time. As it is, the growers keep straggling in at all hours, likewise the shipments, causing the wholesaler inconvenience in filling orders promptly, and then, if everything isn't sold and returns high, he is challenged for a knock out. The present mode of packing adopted by most of the wholesalers is undoubtedly the best. Long, light wooden boxes are used. After being well lined with paper and cotton wadding should smilax or ferns be with an order of roses, etc. they should always be placed in bottom of box to form a foundation. Should roses alone be packed a good bit of loose paper should be placed in each end of the box under bottom layer of roses, protecting them from becoming water soaked. Colored roses should be packed first, as the light varieties are more subject to rust and bruise if packed in bottom. Pack roses in each end of box, putting two to three rows to a layer according to length of stems, which should not lap too much but meet from both ends of box. Place a strip of wax paper between each layer. After all are in fasten a brick of ice securely with cleats and directly on ends of stems. Stock should stand in water a while before packing in order to stiffen it. The ice, if placed properly, will keep up their vitality. Carnations, valley, violets and all such stock should be packed lightly on top. Care should be taken in wrapping packages carefully, as one good sheet of express paper properly tacked and tied around the box will keep out more frost than a half dozen sheets of cotton inside.

These are not by far all the points which the wholesalers and growers should bear in mind, but only a few of the most important and those the neglect of which breed the greater portion of the kicks from dissatisfied customers.

Wedding Decorations at the New York Show.

First prize was awarded to the arrangement by Geo. M. Stumpp. The background was asparagus with Harrisii lilies. The mirror was decorated with white and pink chrysanthemums, Farleyense ferns and asparagus and a fine vase of white chrysanthemums stood opposite. This decoration was noticeable for its simplicity. It made a charming picture.

The decoration by Warrendorf Bros. was awarded a certificate of merit. The mirror on the right (which does not show in the picture) was decorated with araucarias, ferns and smilax, white and pink chrysanthemums. The walls were hung with southern smilax. In the back ground was a canopy of smilax with a wreath of lily of the valley suspended, and festoons of white satin ribbon, and streamers of red and white roses.

The decoration by H. W. Wipperman, consisted of a heavy canopy of smilax overhead with a parachute of pink and white roses and lily of the valley suspended overhead. The altar rail was trimmed with Bride and Bridesmaid roses and white and pink chrysanthemums. A profusion of pink and white roses were strewn on the carpet.

Francis Parkman.

In the loss of this eminent historian perhaps it may not be generally known how largely horticulture also has been indebted to his enthusiastic, persevering and intelligent investigations, which have left a marked impress on its progressive advancement.

His attention was first drawn to such pursuits by the hope of benefitting his health, and his active mind was not content to tread the beaten paths; he early began the extensive cultivation of herbaceous plants, mostly from seeds, and his



WEDDING DECORATION BY GEO. M. STUMPP AT THE NEW YORK SHOW.

success with delphiniums and phlox was very marked, especially with the first named, of which his collection of seedlings was perhaps the finest in this country.

Early in his work a friend placed in his charge a collection of evergreens, lilies, etc., sent over by Dr. Hall from Japan, and this was probably the foundation of his fine collection of lilies, in the hybridization of which he achieved such fine results. "Lilium Parkmanii" is a notable example and was afterwards sold by Mr. Parkman to Anthony Waterer of England. His assortment of rare ornamental shrubs was unsurpassed; roses were also one of his special studies, his collection being one of the most noted in the vicinity of Boston. He published a treatise on the rose which was for many years the best American work on the subject.

In 1862 he connected himself in commercial horticulture and for many years his collection of shrubs and plants were in active demand by growers; in July, 1862, he made the first public exhibition of Lilium auratum before the Mass. Horticultural Society; Messrs. Veitch & Sons had made a similar exhibit in England only a week earlier.

Mr. Parkman was president of the Massachusetts Horticultural Society from 1875 to 1877, and during many years was one of the most prominent exhibitors at its weekly shows.

Indianapolis Floral Festival.

After the show is over it is well to make comments where mistakes were made and where good was done. Our committee can look back to our past floral festival with considerable satisfaction, making it as it was the best show yet held by our society. No serious mistakes made by committee, members or judges have yet come to the surface. Plants exhibited, especially large ones, were backward in amount of blooms, but consequently kept in perfect condition all week; the same can be said about single stem and market plants, except that they were in excellent shape from the beginning. They were good plants all through, but blooms of chrysanthemums were beautiful; in this regard the committee members were astonished themselves that such a fine collection could have been brought together. It is doubtful if such splendid specimen flowers, and in such perfect condition, can be displayed every season.

The display of cut roses was in every way a remarkable one. Mr. J. M. Gasser, of Cleveland, sent some beautiful specimen Brides, Perles, etc.; some of them certainly would have carried off premiums, but no entry being made it was taken for granted they were for exhibition only. M. A. Hunt, W. W. Coles and Nanz & Neuner also showed fine cut roses. The rose tables were the admiration of many, and in this respect I would suggest that gradually more attention must be paid to this department. The upper class having to some extent tabooed the chrysanthemum we must cater somewhat to their wishes. But don't neglect the chrysanthemum, you need it to make the spectacular display, and besides, the people at large are beginning to appreciate the Autumn Queen, and when they do you can depend on successful exhibitions every time. Carnations also should receive more attention and a larger amount of premiums. This department was greatly admired; the difference in size of flowers between varieties was so pronounced that the smaller ones were lost sight of.

The attendance for the week was as follows:

PAID ADMISSIONS.

Evenings (50 cents)	1,335
Days (25 cents)	4,511
Children and auction day (10 cts)	1,800
	7,646

About 600 free tickets were issued for Tuesday evening—about 400 press tickets and 83 complimentary for the week to

members' families and others. All members and Horticultural Society members were admitted free. This record beats our past efforts, but taking the beautiful weather into consideration the effect of the money stringency is felt. Our committee is congratulated from all sides that it came out so successfully, as the State Fair was a failure, while the theaters and other amusements have continued to lose money. The World's Fair has drained many a pocketbook, and the effects will continue for several months to come, until World's Fair debts are paid and savings again stored up. Our committee has a sufficient surplus to pay arrears of secretary's salary and have some money left.

IMPRESSIONS.

The matter of entertainment at flower shows is not given the prominence it deserves. Every exhibition should have a large entertainment committee who will not only see that the press receives every attention but also the visitors, who are often unable to obtain information regarding the exhibits.

Compliments were passed regarding the absence of funeral emblems.

The cut flower booth felt the scarcity of ready money among visitors.

The decorations of the hall are in great demand after the show. The Flower Mission used them this week, and firemen and others will dance under them later.

Extra good music must be provided to attract evening attendance.

Business men were delighted with the trade that was brought to the city on account of the exhibition. The show was advertised liberally all over the state, and reduced railroad rates helped us.

The opening address by Mayor Denny was listened to by a large audience, and with unusual silence. The response was made by Mr. M. A. Hunt, in his usual happy manner, and both speakers were loudly applauded.

Special displays of cut roses were made on Wednesday by E. G. Hill & Co., of Richmond, Ind., and J. S. Stuart, of Anderson, Ind. Among them were some elegant Brides and Mermets. W. B.



Carnation Notes.

As we are now all firing steady it will be well to give a thought to the temperature of the carnation houses. This is a feature too often neglected, as the carnation will not, like a rose, show the effects at once if it gets chilled or too hot. A proper regulation of the temperature will have much to do with the health of your plants and the quality of the cut, as you can not have good flowers from unhealthy plants, neither are you likely to have poor flowers from healthy plants.

My experience has been, taking noon for a start, to have the houses up to 70° or 80° on bright days. It is much better for the plants to allow the houses to run up to 80° if the air is below freezing outside than to put that air on the houses. Have the houses down to about 60° by sundown and down to 50° by sunrise the next morning, and then allow them to run up to the 70° or 80° mark if it is a bright clear day by noon, and repeat the operation as long as the weather is clear and cold. Whenever there is a warm day during the winter put on all the air you can without getting the thermometer below 60°. It is not advisable to go beyond 80° or below 60° at noon; the latter figure is about right for those days when you have to put on artificial heat during the day. If you can not control your houses to within three degrees of what you want your heating apparatus can be improved on and it will pay you to do it at once.

My houses are all heated by steam with 1¼-inch pipe, seven pipes to a house, and every pipe with a globe valve and a check so that we can run one pipe to a house or the seven as needed, and there is little or no trouble in running them just as we want. Every house has two or three thermometers in it. The night man makes a round every two hours, and if he finds the houses too warm or too cold turns off or turns on a pipe as the case may be. I might add that on nights when we are firing pretty hard the night man sprinkles the paths once or twice during the night to keep the atmosphere in a healthy growing condition. With proper temperature and proper moisture half the battle is won to get good carnations.

Most growers are now making some extra effort for their holiday cut. If you wish to give the plants a little extra forcing begin at once and do it gradually; if you start in now for the three or four nights preceding Christmas you can have the houses ten degrees higher than their usual temperature with little or no injury to the health of the stock. A watering with liquid manure will prove very beneficial if attended to about every ten days, and a spraying of ammonia water once a month from now on helps to keep the leaves in a good healthy condition; this is best done immediately after pulling the flowers, and about one quart of ammonia can be used to fifteen to twenty gallons of water. Try a small lot first.

It will pay to disbud from now on to Christmas, as you will want to get in to the market with extra fine flowers at this season of the year. Disbudding should be attended to at least every ten days, and to be really effective must be done as soon as you can get at the buds. I am sort of on the fence on this question and don't know yet which side I will get down on. If the blooms bring two cents or over it will pay; if they bring less I don't think it will. A. M. HERR.

Carnation Portia.

Some growers persist in calling a selected type of this well known and very valuable carnation Lady Emma. Not one of those who have grown the true Lady Emma have ever been known to fall into this error. Lady Emma was raised and disseminated by the late Chas. T. Starr many years ago—at least fifteen, I think—and the color of the foliage and its habit of growth were as decidedly distinct from the one now grown under that name as it is possible for two carnations to be. Carnations as a rule have glaucous foliage, but Starr's true Lady Emma had more nearly true green foliage than any carnation I know, or have known.

I will not dispute that there may be two distinct types of Portia, because this may be accomplished by both selection and soil and climatic influences. For there are now two distinct types of the well known varieties Grace Wilder and Lizzie McGowan. EDWIN LONSDALE.



THE EXHIBITIONS.

Toronto.

At this date (24th) it looks as if the chrysanthemum show of 1893 would be as grand a success financially as it is in other ways. Certain it is that as an exhibition it beats the record "by a large majority," and it seems this time as if the people had really caught on to the beauty and value of the show. The first two days the weather was bad and the attendance, though everything that could be wished for as regards quality, was deficient in quantity, but on the third day (Thanksgiving day) the pavilion was packed both afternoon and evening. The management engaged a first rate band at a reasonable price which helped not a little with its spirited music to make people pleased with everything.

The show of cut blooms was simply immense, and the large center table was a sight to behold and not to be forgetten in a hurry, such blooms had never been seen before, and our American brethren contributed largely to make up the display this year. The following were the American exhibitors: Messrs. Nathan Smith & Son, Pitcher & Manda, E. G. Hill & Co., Mrs. E. Suder, Toledo, O.; Wm. Scott, Buffalo; H. Tong, Erie, Pa.; P. Herb, Mt. Healthy, O.

The judges were Mr. Richard Salter, of Rochester, for cut flowers and designs, and Mr. E. I. Mepsted, of Buffalo, for plants, both of whom must be highly complimented on their thoroughly conscientious work. As it happened the prizes were pretty evenly distributed, so that the inevitable kicking was less than usual on these occasions.

The exhibit of roses and carnations was really something magnificent, and it may be said without exaggerating that no better could be seen on the continent, especially with regard to roses, the bunches of 50 blooms being simply beyond description. I have secured photographs of these, copies of which will be forwarded as soon as finished.

Pressure of business prevents me sending a detailed statement of the exhibits and the prize winners this time, and can only give those who were awarded certificates of merit for new seedlings. Here they are: Messrs. Nathan Smith & Son for Oriana and J. A. Pettigrew; Messrs. Pitcher & Manda for Miss E. Kingsley, Pitcher & Manda and No. 231; Messrs. E. G. Hill & Co. for Challenge and Eugene Dailledouze; Mrs. E. Suder, Toledo, O., for No. 101; Messrs. Manton Bros. for carnation, a sport from Buttercup, dark red and yellow, a strong grower named Eglinton; Messrs. Spears & Muston for seedling carnations, a pure large well formed white and a yellow and red fancy, both unnamed as yet.

On the evening of the 23rd all the members of the association who were present were gathered into the secretary's office where the following resolution was carried unanimously:



WEDDING DECORATION BY WARENDORF BROS. AT THE NEW YORK SHOW.

"The Toronto Gardeners' and Florists' Association, assembled at the Pavilion, Horticultural Gardens, on the occasion of their annual chrysanthemum show. Moved by the President, Mr. Thos. Manton, seconded by Mr. Geo. Vair, that this Association desire to express their deepest sympathy with Mr. F. C. Bruce in the great loss he has sustained in the recent fire, and that they are in accord with the profession in hoping that the citizens of Hamilton will continue to him the approbation that his long residence and business ability entitle him to at their hands."

Messrs. J. A. Bruce & Co., seedsmen, Hamilton, were burned out on Monday night last.

Details of the show will be forwarded next week. E.

Louisville, Ky.

The chrysanthemum show under the auspices of the Children's Free Hospital has gone by, and the florists as well as the hospital have every reason to be satisfied with the outcome, financially as well as artistically. The sum of $400 has been divided among the florists, viz., Nanz & Neuner, Chas. Schleeter, J. Schulz, A. Lauer, Wm. Mann, E. G. Reimers and C. W. Reimers. The latter withdrew from the exhibition after having been debarred by entering cut blooms of chrysanthemums which were bought, the rules stating that no purchased cut flowers would be allowed in competition. The plants on exhibition were unusually fine, especially the standards and single stems. Cut blooms of chrysanthemums were very good; 35 varieties were shown and four blooms to a variety.

Tuesday, November 14, being the day for roses, Nanz & Neuner received 1st prize for best collection and finest specimens, J. Schulz 2d, S. Schleeter 3d, A. Lauer 4th, Wm. Mann 5th and E. G. Reimers 6th.

The daily attendance was about 600 people, owing to a very small hall; otherwise a larger attendance would have been secured. The results were as follows: Total receipts from gate and advertising, about $1180; paid out for advertising, hall rent, music and incidentals, $600; to the florists, $400; leaving a balance of $180 for the hospital fund. Commission on sale of plants and cut flowers amounted to $75 and the sale of cocoa and home made candy, which were sold by the hospital ladies, amounted to $75, making a net profit for the hospital fund of very near $350, which in these hard times certainly is a very nice sum to receive.

The florists are determined to organize at once in order to make preparations on a large scale for next season, as the Commercial Club of this city will take the matter in hand and run it as a fall celebration in conjunction with music and other attractions. It goes to show that without harmony and united action not much can be accomplished. Therefore with the encouragement we have had this season we may be in a position to invite outside competition and have an exhibition equally as fine as our northern cities. H. NANZ, Sec'y.

Frederick, Md.

The Floricultural Society of Frederick County, Md., a society of amateurs, has again scored a grand success financially and otherwise in their show this season, which far exceeded that of last year. The membership of the society is made up of physicians, lawyers, merchants, the postmaster of the city, clerks and many ladies prominent in social circles.

The show was held in the armory, one of the largest buildings in the state, and it was literally packed with exhibits. The showing made by the amateurs was wonderful and has probably never been equalled at any show in America. The specimen plants and cut blooms were magnificent, much finer than those of a great many florists in some of the shows in the large cities.

The cut blooms of Henry Trail and David Groff, two florists, have never been surpassed, not even at the great show in New York. Such was the opinion of Mr. John Donn, the judge, who last year was one of the judges at the Madison Square show, New York. Mr. Herman, another

florist, made a splendid exhibit of foliage plants, his immense bank in the center of the building being beautifully illuminated with a number of colored incandescent electric lights. The whole building was lighted by large arc lights, and handsomely decorated with cedar trees arranged all around the hall, flags, bunting and Japanese decorations; in fact we claim that our show has never been equaled in this country by any society officered by amateurs.

In no city of its size other than Frederick is the culture of flowers in the home circle carried on to so great an extent, and it is all owing to the exhibitions of this society; it is the florists who reap the benefit, whilst the amateurs do the real work. The president is a prominent physician, vice-president a dry-goods merchant, the treasurer is the postmaster of the city, and the secretary is a dry-goods merchant, Mr. C. Edwin Kemp, to whom much of the credit for the success of the show is due.

Let other towns and cities follow the example of Frederick. C. HERMAN.

Oshkosh, Wis.

The attraction for the second day was the roses and carnations, of which there was a fine display. For vase of 12 roses John Nelson was first with La France; Miles second with American Beauty, with very short stems. For 6 distinct varieties of roses Nelson 1st, Miles 2d, Woods 3d. In carnations Nelson was first on display, Miles 2d; for 25 blooms, white, Nelson 1st, Miles 2d; 25 blooms, pink, Nelson 1st, Woods 2d; 25 blooms, red, Woods 1st, Nelson 2d; basket, Nelson 1st, Miles 2d.

For table of decorative and flowering plants Lewis was first, Nelson second. Mr. E. Haentze of Fond du Lac had a very fine table of roses, carnations, violets and smilax, not for competition, as Mr. Haentze acted as one of the judges; the management, however, awarded him a special premium, which was well deserved.

Taken altogether the show was a great success, leaving a nice balance after paying expenses.

In the class for table decorations by ladies of the club Mrs. Rounds was first with a very dainty one in Mermet roses and adiantums. The second table was in Daybreak carnations and asparagus, good, but rather short in material.

Terre Haute, Ind.

The second annual "mum" show of the Congregational Church was held here November 11. Mr. M. A. Hunt donated a fine assortment of his best chrysanthemums and the show was well patronized, clearing something over $100.

Jno. G. Heinl gave a "mum" show lasting eight days at his new greenhouses on 20th street. On Sunday there were nearly 2000 visitors. He has seven houses all planted in mums, Beauties, carnations and roses. The Beauties are coming on finely with 4 and 5-foot stems and good color.

L. Heinl has opened an uptown office on south 6th street for the winter months.

We have several gardeners with greenhouses for lettuce, etc.; one has 40,000 feet of glass for lettuce alone and ships all to Chicago. F.

Princess of Chrysanthemums.

I notice Mr. Grove P. Rawson implies that the above and Good Gracious are not synonymous in his communication in your last issue, but I can not agree with him on this subject.

We secured our stock of Princess of Chrysanthemums from Mr. John H. Sievers, who disseminated it in the spring of 1892. Hearing they were synonymous we purchased a few young plants of Good Gracious from the disseminators, Messrs. Peter Henderson & Co. Our object was to satisfy ourselves whether or no there was any difference, and to avoid variation from soil and culture the two varieties were planted on the bench side by side, and I must say as here grown were identical in growth, foliage and flower.

Kate Mursell (Mursell) 1891, a light yellow sport from Lady Trevor Lawrence (probably better known in this country as Robert Bottomley) and Flora Harkett, sent out last spring, are synonymous and the first name has precedence.

Synonyms are quite likely to occur from sport varieties, and may occur in remote localities, as has been the case where the same variety has sported to the same color in England and America at about the same time. ELMER D. SMITH.

Chrysanthemum Mrs. Craige Lippincott.

Yes, sure enough, this variety may be classed among the hairy ones, and it comes by the hirsute appendages honestly, too, for according to its registered breeding it is a cross between Mrs. Alpheus Hardy and Kioto. The hair is not nearly so pronounced, however, as it is on Hardy, Boehmer and those types. E. L.

CHRYSANTHEMUM MRS. CRAIGE LIPPINCOTT.—In the advertisement of Mr. Hugh Graham, on page 381 of our last issue, a typographical error made him offer stock plants of this chrysanthemum at $4 00 a dozen when it should have read $4.50 a dozen. The adv. appears correctly in this issue.

New York.

There is a little improvement manifested in the cut flower trade, but prices and demand are far behind the average for the season, and the outlook is not over bright. The worst thing that can happen now is a sudden increase in prices, and those who are looking forward to excessively enhanced values for holiday stock will in all probability be sadly disappointed. A case in point at the present time is the price of violets in this market. Until recently the wholesale rate was 33 cents to 50 cents per hundred; now it has jumped to $2 and $2.50 per hundred for good stock. Retailers cannot afford to handle violets, which lose their fragrance, and consequently most of their value, in twenty-four hours, at less than double the wholesale price. The public wants violets, there is no flower more steadily a favorite than the violet, but when it comes to paying $4 and $5 per hundred for them the public will go without them rather than stand such a price, this more especially in a season like the present, when every dollar is carefully watched. Insistence on these excessive prices will surely kill the violet trade for this winter, and incidentally injure the entire cut flower industry at a time when it can least afford to stand it.

Chrysanthemums are nearing their end. Those in the market have a bedraggled appearance, they drop their petals and they hang their heads, and within another week they will have ceased to be a factor, and the rose men and the carnation men will have regained their position in the market, with nothing in the chrysanthemum line to worry them for another year.

Roses are in full supply. While a few choice selected lots bring as high as $6 per hundred, it is not unusual for large quantities of mixed varieties to be unloaded after other demands are satisfied at $15 to $20 per thousand. American Beauty is in short supply. Few blooms bring over $4 per dozen, but occasionally very select special specimens may go as high as $6 per dozen. The carnation market is in bad shape. Daybreak, Buttercup, and other highly favored varieties are always salable at good prices, but the common run of market varieties are sold with difficulty and are overstocked.

Cypripedium insigne is one of the most abundant as well as one of the most unsalable flowers in the market at present. No one seems to want them. But they are good keepers and their turn may come in the sweet bye and bye. Smilax is another good keeper, which keeps entirely too well for the peace of mind of those who have to handle it. Nobody has any use for it apparently.

Messrs. Taylor, May and Weathered, the committee intrusted by the Florists' Club with the duty of arranging for the annual club dinner have fixed the date as January 6, 1894, at 6:30 p. m., and the place selected is the Arena, on 31st street, near Broadway.

G. W. Hillman, Jr. and family had quite a scare at their residence in Flushing on Wednesday, 22d inst., from a fire which started in the kitchen in some unexplained manner and from which his wife and child sustained burns, fortunately slight, however. The damage to the property was estimated at $400. Two days after a large haystack near the house was burned and a loss of $200 was sustained. This latter fire is believed to have been incendiary.

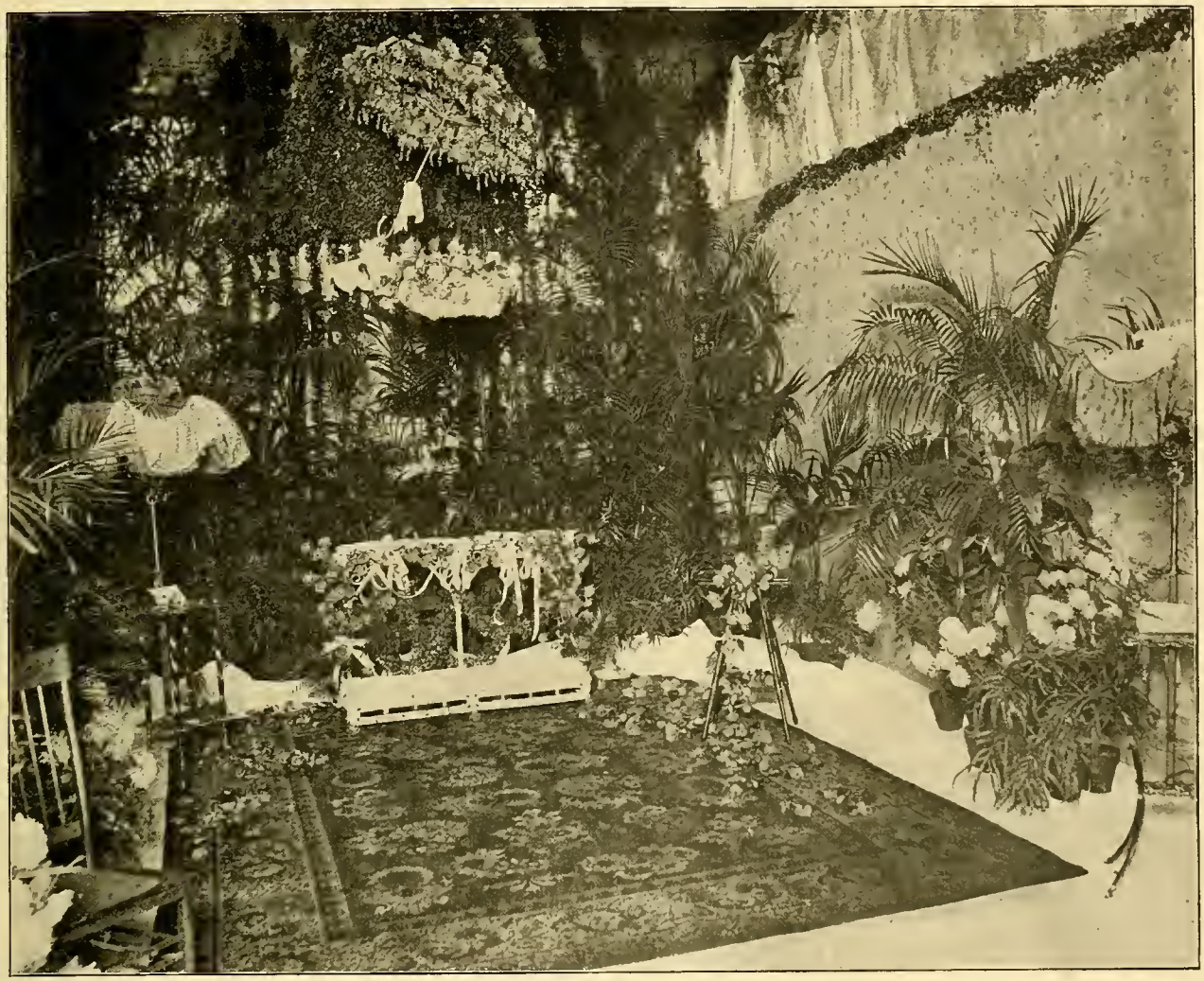
M. B. Maguire is sending to Burns & Raynor some very well-grown bougainvillea. This is a fashionable color this season and there is no more effective flower for decorative work.

Strangers in town: C. R. Gallup, Denver, Colo., and Ben. Dorrance, Dorranceton, Pa.

Philadelphia.

The chrysanthemum army is now thoroughly routed and in full retreat, only a few stragglers remaining, the best of these being Eva Hoyt and Harris' seedling No. 10, a very large incurved blush white with yellow eye; the flowers of this last variety are larger than any other incurved kind that we have seen, and as it has good stiff stems and is not ready until after November 15 it is one of the most valuable late varieties. Minnie Wanamaker is in fair shape, but the stems are getting weak; Mt. Blanc, both yellow and white, with very straight stems, are just in, and there are still a few Lincoln and Widener. Anderson has a lot of Mrs. Whilldin which he thinks might last until Christmas, at least it is in as good condition as Lincoln and Widener is with him, except the color, which is considerably lighter than at first. Prices for good flowers range from $6 to $16 per hundred. Atkinson, of Edgewater, says he can take more money out of a house by lifting the plants from the field just before frost, heeling them in on the tables and giving good big bunches of sprays for 25 cents; he finds ready sale for this kind of stock. Pot plants are all done.

All kinds of roses are in good shape and



WEDDING DECORATION BY H. W. WIPPERMANN AT THE NEW YORK SHOW.

there seems to be plenty for the demand. However, prices have stiffened a little, most growers asking $3 for the small teas, although very good stock can still be had for $2. A few choice Kaiserin have been sold by R. Craig for $8. This rose is gaining in popularity. There have been some Brides about, however, which have pushed it very hard. Messrs. Heacock and Myers and Santmann have had some fine specimens the past week; $4 is the top price for Bride, Mermet and Bridesmaid, but as the quality of the stock is getting so much better the next cold wave will likely move the figures up a point or two. The best La France, sent in by Casper Pennock, sell for $6; they are fine flowers. Beauties and Belles are now $16 to $20 per hundred and some days quite scarce. Burton, Lonsdale, Myers and Santmann, L. Ball, C. Meehan and the Messrs. Pennock are all cutting good stock of these varieties.

Some of the store keepers are complaining of the sly way the growers have of marking prices up without consulting them in the matter. Most dealers take regularly certain amounts of stock and the growers count these out, make out their slips, pass them up to the desk and walk out, and it is sometimes several days before the dealer is aware of the advance. Then there is a scene, but the prices seem to go all the same.

Messrs. LaRoche & Stahl are remodelling their store; it had been cut in two by a division down the center making two small stores, the corner one being rented to a cigar man. He failed, however, and now the partition is removed, the firm have taken the corner on 13th street side and rented the other side and counter for a music store. This is a move in the right direction; music and flowers ought to make a strong combination.

The Crawford ten pin team have beaten the Brown faction in two consecutive games. It was hard for Brown to lose last Thursday night after putting up three games of over 190 to a game, but his men could not keep up the pace he laid out for them and they were defeated by over 100 pins.

Robert Craig and his son William have returned.

E. V. Hallock and Major Bonnaffon spent Sunday last in Phila. K.

Buffalo.

Business must be pronouuced rather dull. There is a dearth of weddings, society events, etc., which accounts for it. Chrysanthemums are getting much less plentiful and those that have them now will be likely to realize a good price. There has been a good deal said about the drop of prices in the "Queen of Autumn" and also its alleged unpopularity, but as near as I can learn of the trade in this city all that have been grown here or sent in from other locations have been disposed of, but at certainly not the same prices of former years. Prices have been about 30 per cent lower for the same quality of flowers. They are a comparatively easy flower to grow, and coming in large quantities in a short space of time, the market is bound to be a little overdone. There is no scarcity yet in roses, except American Beauty. The demand for carnations is a little beyond the supply and there are many days when there are not enough to go round. Daybreak is the favorite here and very fine quality flowers wholesale at $2 per hundred. Violets are the scarcest flower in this city; an extravagant price is asked by the few growers who have the good fortune to pick any quantity. There are very few paper white narcissus forced here early and they would not pay if they were. Roman hyacinths are getting plentiful, but a good use is made of them. Calla lilies are none too plentiful. Mr. James Milley has a fine lot of early Bermuda lilies, which find a ready market at 15 cents wholesale.

Mr. Rebstock was so elated over the great majority his friend Laughlin received for city attorney that the two immediately after election repaired to the wilds of Canada in search of game. They must have had great luck, for since their return

Joseph's friends have been surfeited with game in various degrees of age.

I am well aware there is a gentleman in Toronto fully capable of giving you a good report of their show there last week, but I would like to bear tribute to the excellence of the whole show. In company with the two judges, Richard Salter of Rochester and E. I. Mepsted of Buffalo, I took it all in. The mums, both plants and flowers, would compare favorably with shows in very much larger cities. But it is not in chrysanthemums that the glory of the Toronto boys rests; it's in something else more solid. I am not afraid to assert that such a display of carnations was never staged on this continent before, and their roses—such roses as are grown by Harry Dale, John Dunlop and Walter Muston are worth a long journey to see; only they make those handling the ordinary run of roses feel a little faint. W. S.

Chicago.

George Edward Thorpe, youngest son of John Thorpe, died November 23 of typhoid-pneumonia, aged 20 years, and was laid to rest in Oakwoods Cemetery on Sunday last. The funeral was attended by many members of the Florist Club and a suitable floral tribute was sent by the club. The deceased was a very promising young man and very popular with all who knew him. His untimely death was a severe shock to all. His father and family have the sincere sympathy of all in the trade.

At the last meeting of the Florist Club Mr. Chas. McKellar of Corbrey & McKellar read an instructive paper on the packing and shipping of cut flowers, which appears elsewhere in this issue. A committee was appointed to prepare suitable resolutions regarding the loss to the club through the death of George Thorpe, and the officers were instructed to make arrangements for attending the funeral, and to see that a suitable floral emblem was sent in the name of the club. Mr. H. Holzapfel was requested to read a paper upon the system of making awards at the World's Fair at a future meeting, and accepted the assignment. There was an interesting discussion of the recent exhibition.

Trade is fair and a profitable Thanksgiving business is expected. Prices have kept up and show an increase in some lines. Beauties are very scarce and in great demand. Meteor ranks next, the demand for this variety being very brisk, as high as $7 being obtained for extra flowers, while the average is $5 to $6. Some excellent Woottons are seen, but they cannot compete with Meteor. Brides are rather scarce in best grade. Bridesmaids are bringing $6, while Mermets go at $5. Excellent Perles are seen. Colored carnations were rather scarce at the beginning of the week and were bringing $1.25 for red, while Daybreak is scarce and difficult to obtain at $2. Violets are scarce and in brisk demand at $1.50.

In the bulb stuff narcissus still keeps a drug; Romans sell better, but the demand for them is not extra brisk. The stock in the market is very good. Valley keeps at $5; a good deal of that noted is rather too pale and not properly hardened off, so does not stand very well. Harrisii and callas are improving in both quality and quantity. Chrysanthemums are nearing their end, but a few blooms fine enough to command $25 a hundred have been in this week, these being of course from single stem plants. Among them were Harry Balsley in fine order, W. H. Lincoln, Snowball, Niveus and L. Canning, but the latter is not a favorite, as the flowers drop so quickly. Smilax is plentiful and good, and asparagus is coming in for an increased share of favor.

Among recent visitors to Chicago were E. C. Reineman and brother, Allegheny, Pa.; Miss Emily Taplin, Detroit, Mich.; L. J. Leopold, St. Louis.

Washington.

Business has been unusually dull during the past few months, wedding decorations and funeral orders constituting the bulk of the trade. During the past week or ten days orders for wedding decorations and funeral designs have been above the average, and the outlook is much brighter. There is little or nothing doing in the way of receptions. Society people of Washington seem to feel the stringency in the money market as keenly as do the business classes, consequently they are spending as little money as possible, and the florist seems to be the first sufferer when retrenchments are in order.

Chrysanthemums seem to be a glut on the market at present; there has been an unusual production throughout the District this season, which has brought prices down very low. The quantities peddled on the street and those offered for sale by farmers at the markets have hurt store trade considerably. The demand for large pot grown plants has been very slow, the call seeming to be largely in favor of small plants with from six to eight good flowers.

Mr. C. F. Hale, who exhibited such fine specimens at our late show, says he does not intend to grow large specimen plants next season, but will devote his attention to the production of fine flowers on small plants, not allowing more than six or seven flowers to a plant; he finds readier sale for that class.

The store windows are all decorated with fine plants of chrysanthemums. Mr. J. R. Freeman has a fine display in his beautiful store on 13th street. Mr. C. F. Hale has some of the famous prize winners on exhibition in his attractive store on 14th street, where he exhibits the greatest number of varieties of anyone in the city. The Gude Brothers continue their exhibition at their store on F street. They are never behind, always to be found in the front ranks.

The demand for decorative plants has fallen far behind former years, though the florists all have fine plants of this class. Probably the sale of these will increase after the chrysanthemums are past.

Roses, carnations, valley and violets are not over plentiful and the quality is not up to the standard, with a few exceptions. I think they are being withheld in order to work off the stock of chrysanthemums.

Messrs. J. H. Small & Sons have a portion of their late fine exhibit yet in their windows; their miniature gardens are as attractive as ever and add much to the appearance of their handsome and attractive store. They had their chrysanthemum exhibition a week earlier than the Florist Club. It was a most excellent display and attracted thousands of our citizens.

Mr. Geo. H. Brown, Superintendent of the propagating gardens, and his assistant, Mr. E. M. Byrnes, have given considerable attention this season to chrysthemum growing, and their display at the gardens, near the Washington monument, has attracted much attention among the florists as well as the public; and well it might, for they certainly had the finest ever grown in the District of Columbia. The flowers on pot grown plants were as large as those usually grown on benches from single stems. Many of the plants, in fact most of them, were in 14-inch pots from cuttings rooted last March. These plants carry from twelve to thirty flowers each, and are indeed very fine. A plant of Mrs. E. D. Adams has ten flowers measuring from 10 to 14 inches across, and they have a number of others equally a well done, namely, The World, Golden Wedding, Viviand-Morel, and a host of the other leading varieties which are simply perfection.

They have a small bench across one end of a greenhouse devoted to seedlings of their own raising and several among them promise to be very fine. One, a cross between Mrs. E. D. Adams and Gloriosum is a creamy white, good substance, reflexed bloom, measuring eleven inches has eight of the outer petals standing out from the others some two inches or more at regular intervals, producing an odd appearance. Mr. Brown has named this Mrs. Col. J. M. Wilson, in honor of the wife of his superior officer, Col. J. M. Wilson, engineer in charge of public buildings and grounds. They have another very fine rose pink measuring 14 inches, which has not been named. Mr. Brown has every reason to be very proud of his efforts in his chrysanthemum undertaking. C. LESLIE REYNOLDS.

Boston.

The cut flower trade is livelier and prices are beginning to look up. With good weather a fair Thanksgiving Day trade is anticipated. There is a scarcity of white chrysanthemums and good blooms sell quickly. Roses of good quality are in demand. Carnations are abundant. Violets are in short supply; these and American Beauty sell at sight if in good shape.

Lawrence Cotter and Edward Hatch celebrated the capture by the former of the premium offered by the latter at the chrysanthemum show, and incidentally settled an election wager by inviting a dozen of their friends to dine with them at the Thorndike on the evening of November 22. It was a very select company and the various exercises were carried out with due formality. Judge Hoitt and Warren Ewell were the star speakers of the occasion.

From Nashua comes the news that Judge Hoitt's professional duties have increased to such an extent that he has been obliged to retire from the flower business and has sold out his establishment to Mr. August Gaedeke, who has been in charge of the business for several years. Judge Hoitt has never given much personal attention to the business, being in it because he loved the flowers and the society of the florists. It is gratifying to know that although not actually identified with them in business the popular Judge has no intention of discontinuing his social relations with "the boys," but will still be with them in sympathy, and when anything is going on he can still be counted on to participate as of yore.

Paul Berkowitz, of Bayersdorfer & Co., is in town.

St. Louis.

A week of continuous cold weather has had the usual effect upon the market and stock has become scarce. Shipping orders have started to come in at a good rate,



GENERAL VIEW OF THE INDIANAPOLIS CHRYSANTHEMUM SHOW.

thus opening outlets that were closed during the warmer weather. Chicago however, must be still suffering from overproduction or stagnation, as several shipments have been received from there at the reported rate of $16 per thousand.

At a meeting of the exhibition committee to wind up the affairs of the late show it was found that the expenses exceeded the receipts by about $200. There is, however enough money in the treasury of the club to make good the deficit so the signers of the guarantee fund will not be called upon to make any payments. At the informal discussion which followed the meeting the prevailing sentiment was in favor of discontinuing the shows; if they are to be continued it must be on radically different lines. R. F. T.

Pittsfield, Mass.

The Berkshire County Gardeners' and Florists' Club enjoyed their annual banquet at the Burbank House on Wednesday evening, November 22. About fifty members were present and the tables were beautifully decorated with chrysanthemums, roses and palms. In the absence of the President, Colonel Walter Cutting, Vice-President John White occupied the seat of honor. Following the dinner speeches were made by many prominent gardeners of the county and Mr. A. P. Meredith, on behalf of the club, presented the secretary, Mr. W. M. Edwards, with a handsome token in the form of cash. Treasurer Lucas was also remembered in a similar manner, and Miss Mary E. Miller and Mrs. John White received a gift each in recognition of their efforts at the club's exhibitions.

Milwaukee.

Milwaukee has not had much to say lately, because we are undergoing a development in the evolution of the trade which is not easily understood, and which, if understood, bears more on the philosophy of the subject than on any one branch in detail, as is common in reporting the condition of trade in a city.

We are just beginning to see and feel the effects of that economic condition called the division of labor. But while it has started, and is working to advantage it nevertheless works some hardships, for all changes entail some loss, in spite of any improvement brought about by such change. We have had any number of so-called growers here, but they were a class which neither lead nor follow anyone else who does lead, each one attempting to grow a little of everything, and making a partial failure of half. They would neglect crops to look after trade, and when they got an order be obliged to call on other growers to supply stock; then, when they got a crop themselves, complain about outside stock filling their market, and that growing was overdone. The uncertainty of their product made it impossible for consumers to depend on them, so when by chance a nice crop was obtained there would be no sale, because our "Jack of all trades" must peddle his own stock and would seldom call at the right place, or at the right time.

By a determined effort on the part of a few a flower market has been established here which we think is equal in efficiency to any. It is having the effect of driving many growers into various lines of specialties, with results that are quite promising. It has thrown all local growers into competition with outside growers, and, although it caused much grumbling, it is working a great change. The amount of flowers sold is more than double what it was a short time ago, which is due to the organized effort to get things into such shape as to be able to accommodate the public promptly. Of course it gave rise to the opening of several stands by parties not having any greenhouses. They got regular supplies of flowers, which they could supply better than the retail grower, thus compelling him to fall in line. While such changes are in the line of progress they cause much grumbling. We have been troubled but very little by the fakir, because he is not given much if any opportunity to cut the dealer who pays store rent.

The price of flowers for the day is never broken in our Milwaukee market. If Mr. Jones pays four cents for first quality Mermets this morning he knows that no one will get them for less all day, but the next day all stock that may be left over is marketed at half price. While this gives a fakir a chance, the other dealers get the same opportunity, and they are enabled to watch the fakir and meet him half way. The consequence is that the

waste barrel is very little used, and the fakir simply exists in order to keep the storekeeper awake. Recently the chrysanthemum was most popular, but the supply did not fit the demand. There were just about enough of the large flowers, grown single stem, to supply the demand, wholesaling at 15 to 40 cents each. Those quoted at 8 cents were rather overdone, but so far as we learn but one florist was provided with good plants for retailing. This firm found ready sale for plants with twelve to twenty-four flowers at $1, $2 and $3 each. We do not understand the cause, unless the growers think cut flowers pay best. We think growers at a distance may fare best with cut blooms, but local growers should provide good pot plants.

The price of roses took a tumble when they had to share the market with the mums. The supply is better in quantity and quality than it was a year ago. Violets are quite good in quality, and sell out clean at $1. Romans are in good supply. Auratum lilies are finished. Callas are coming in a very few at a time. Harrisii lilies are over; new crop is promised December 1; this is a troublesome time for large flowers. Carnations increase in popularity as they improve in quality. The supply is good, but small and irregular. Milwaukee is shorter of good carnations than any other flower. The use of fern fronds and other fancy foliage is greater here than in other places. Asparagus tenuissimus is used as much as plumosus, and is considered the better for many purposes.

The principal demand for flowers this season is for those inevitable occasions, birthdays, wedding and funerals. Color is used quite freely now in funeral work. American Beauty roses are now quite frequently used. A beautiful piece we saw today was a large wreath of fancy foliage with a few dark red long stemmed anthurium blooms, and gloxinias to match. There is considerable plant work done for funerals also. There is a steady demand for palms from $2 to $5, but the latania is not in demand, and the ficus has never become popular here. The use of small ferns in jardinieres is increasing. The florist trade here on the whole is not good, but the condition of stock generally is better than usual, and promises well for the future. The weather has been quite favorable for outside work, and there has been considerable planting of shrubs and bulbs done. The stock of tulips is lower than common at this date. C. B. W.

News Notes.

GOUVERNEUR, N. Y.—I. M. Brainard is building a new house 20x80 at his place on Rock Island street.

NORTHAMPTON, MASS.—The Lord & Burnham Co. have the contract for building the new greenhouses at Smith College Botanical Garden.

MOBILE, ALA.—Mrs. M. T. Green has recently exhibited two fully matured pineapples grown by her. This is the fifth time her pines have borne fruit.

NEVADA, MO.—Clarence W. Talbot, the florist, gave a chrysanthemum show November 17 to 19 inclusive. The display was excellent and the attendance large.

FT. WAYNE, IND.—D. Honaker is having a fine store room built in the heart of the city in which he will open for business shortly.

LITTLETON, N. H.—George M. Kendall has one of the largest hothouses in the state in process of erection. The first snow of the season came here on Sunday, October 29.

SHARON, PA.—The second annual exhibition of the Sharon Chrysanthemum Club was held November 15 to 18 inclusive. M. I. O'Brien, a local florist, is president of the club.

BROOKLYN, N. Y.—Mr. and Mrs. Wm. Davison will celebrate their 50th anniversary on Thursday, Nov. 30, at the residence of their daughter, 951 Bushwick avenue, this city.

SPRINGFIELD, MASS.—A large block on Main street, in which is located the florist store of N. J. Herrick, was badly damaged by fire on the night of November 14. Mr. Herrick's loss is estimated at $200.

LEBANON, PA.—The chrysanthemum show held by the charitable ladies of Lebanon during three evenings of last week, for the benefit of the destitute and unemployed, realized a profit of over $1,000.

BEATRICE, NEB.—A chrysanthemum show was held here November 7 to 10. It was quite a novelty here, being the first show of the kind ever held in this part of the state. About a thousand plants were on exhibition.

AURORA, ILL.—J. A. Freeman has removed his greenhouses from 185 Penna. avenue to 396 North Lake street and added ten new rose houses 18x50 and a house 10x36 for palms and ferns. He now has a total of 6,000 feet of glass. Heating is by hot water in 4-inch pipe.

MINNEAPOLIS, MINN.—The chrysanthemum show given by E. Nagel & Co. at their store on Nicollet avenue was very successful. The display was as good if not better than any seen in this city before. Sixty-five varieties were shown, among them some very fine standards in addition to bush plants, and three seedlings, E. Nagel, bronze; Flora Rumler, creamy white; and Mrs. D. Morrison, bright yellow. No admission was charged and the attendance was very large.

DANVERS, MASS.—Messrs. E. and C. Woodman have just opened their new flower store and greenhouses at Tapleyville, to the public. The office building is very pretty and well adapted to the use for which it is intended. The entire frame work of office building and greenhouses is of iron, from plans and material furnished by Hitchings & Co., of New York. On the street front large show windows permit displays of plants, flowers, etc., and within, counters, show cases and refrigerators are conveniently arranged for the transaction of a large business.

SPRINGFIELD, ILL.—Brown & Canfield have opened a store at 329 South 5th street and have held a chrysanthemum show there the past week, making no charge for admission. The cut blooms shown compared favorably with most of those displayed at Chicago, though most of them were grown 4 to 8 flowers to a plant. Pot plants were shown in 60 varieties—from single stem in 4-inch pots to large bush plants in 6 and 7-inch pots. During the exhibition plants found quite a good sale, especially the 5-inch size, which sold at from 35 to 50 cents each. In addition to chrysanthemums there was a handsome mound of palms, a collection of ferns and a fine show of roses of all the leading varieties, including vases of Am. Belle, Testout and K. A. Victoria, all from their own houses, also Romans, violets and carnations. They expect to make the store a permanent fixture if it pays, but will continue it till after the holidays anyway.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By German, 24 years of age, as assistant; good greenhouse man; single. Good references. P E, P. O. box 64, Bedford, N. Y.

SITUATION WANTED—As foreman: practical grower of roses, carnations, violets, decorative and bedding plants, forcing of bulbs. References English and this country. State wages. Address FLORIST, 154 La Salle Ave., Chicago.

SITUATION WANTED—By competent single florist and gardener; private or commercial; permanent place. Please give full particulars in answer by letter. Address COMPETENT, Substation D, P. O. De Kalb Ave., Brooklyn, L. I., N. Y.

SITUATION WANTED—In commercial place by young man of good habits, who has had 6 years' experience in general greenhouse work. Not afraid of work; willing and obliging. Address LA FRANCE, care American Florist, Chicago.

WANTED—Wholesale catalogues on vegetable and farm seeds LOUIS ORTENDORP, Spring Brook Farm, Mora, Minn.

WANTED—An active young man who has had some years experience in a cut flower growing establishment in the U. S. Must be able to furnish good references. JOHN IRVINE CO., Bay City, Mich.

FOR SALE—Owing to failing health we offer for sale our mailing list of 12,000 customers. Best offer takes it. FERRIS BROS., Kingston, N. Y.

FOR SALE—Complete set of florist store fixtures, almost new, fine ice box, large plate mirror, upright wall show case counters, stools, desk, etc., etc. Bargain; or will furnish fixtures on share profits with good florist, having some money and wishing to go in business. Address H, care American Florist.

HOLLY.

It is conceded that the successful delivery of perishable stock in the best condition exactly when demand is active is secured only as the result of considerable experience and close study of all the controlling conditions. During the past ten years we have studied these conditions and have the experience. We have faith that we can supply "First-Class Stock on Time," and to prove our faith by our works, on all orders given us **in season, we will Guarantee arrival** or no pay. We attempt no competition in price with stock which has never yet arrived, or—arrived after Xmas.

"A Case of Holly in front of the store is worth four (4) on the cars."

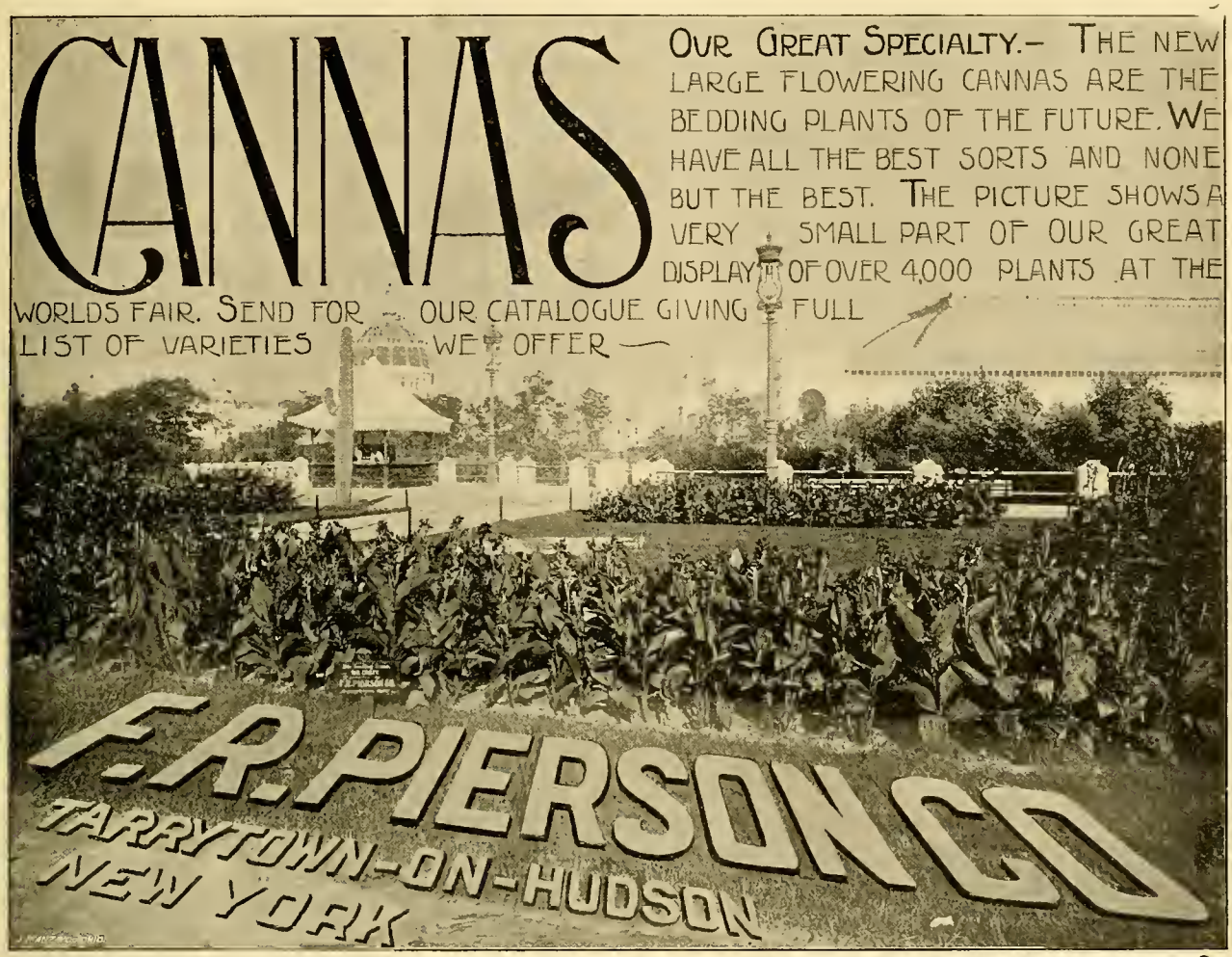
Bouquet Green.

WE CAN MAKE CLOSEST RATES ON THIS STOCK AT ALL TIMES.

Write or wire us for latest price if you are in the market to buy.

J. C. VAUGHAN,

New York. CHICAGO.



100 % PROFIT and no risk in taking subscriptions for GARDENING from your customers. Write for particulars.

THE GARDENING CO., Monon Bld'g, Chicago.

Evergreen Wreathing.

Especially made for our Florist trade, from Select Green.

Medium heavy, per 100 yds. $3.50; per 1000 yds. $30.00.

Extra heavy, per 100 yds. $5.00; per 1000 yds. $45.00.

(Samples of medium grade, 20 yards for 75 cts. Samples of heavy grade, 20 yards, for $1.00.)

BOUQUET GREEN (In Bulk). Write or wire for lowest prices. We have a good stock of No. 1 green to offer.

HOLLY. (Well packed cases of 16 cubic feet), as good stock as the season has produced. Per half case, $3.00; per case, $5. Larger lots at lower prices.

Send for our Circular on Xmas Decorations.

W. W. Barnard & Co.
6 & 8 North Clark St., CHICAGO.

For Sale.

My stock (20 shares) in Probst Bros. Floral Co. For particulars, write

SAMUEL MURRAY,
1017 Broadway, KANSAS CITY, MO.



EVERGREEN CUT FERNS

ESPECIALLY FOR FLORISTS' USE

$1.25 per Thousand Ferns.



IN LOTS OF 5,000 AND UPWARDS, $1.00 PER 1000. Ferns furnished the year round. Special attention given to supplying the Wholesale Trade.

BOUQUET GREEN For Holiday Trade, $2.00 per barrel (thirty pounds); or $6.00 per hundred pounds. Special reduction in express rates.

SPHAGNUM MOSS a specialty. Long, clean fibre, dry or green, $1 per barrel, or six bbls. for $5. Write for terms on large lots. Terms cash, or goods will be sent C. O. D.

CHRISTMAS TREES. American White Spruce, much better shape and color than the Blue Spruce, also Balsam Fir from 3 to 30 feet high. Special attention to supplying carload lots. Write for price list and terms.

L. B. BRAGUE, Hinsdale, Mass.

City Stand During the Holidays: 47th St and Lexington Ave., NEW YORK.

DOES IT PAY?

to wait till the last moment.

NO! Then order your

Bouquet Green, Cut Ferns, Sphagnum Moss, Xmas Trees, Holly, Festooning, and Xmas Green of all kinds. ▲ ▲ ▲ ▲

And do it early. Write for prices—low as the lowest. A 1 goods, and the only place in the WORLD where you can ALWAYS get them.

H. E. HARTFORD, 18 Chapman Place, BOSTON.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

The Nursery Trade.

A note having recently appeared in the Philadelphia *Press* representing that on occount of the depression in trade this year the nurseries at West Chester had been obliged to discharge their hands and close business for the winter a month or more earlier than usual, we took the liberty to send a copy of the statement to Messrs. Hoopes Bro. & Thomas of West Chester to ascertain regarding the truth of the statement, and the following encouraging reply was received: "Gentlemen: The enclosed clipping from the *Press* is a sensational item without any foundation in truth. It is true that the nursery trade has been affected by the depression in business but that 'the orders were all filled in October' is a myth. The present autumn is fully up to the general average owing to the increased demand for certain kinds of stock."

PLEASE WRITE on your printed letter head when addressing our advertisers. If you have no printed letter head, then enclose your business card or bill head.

THE AMERICAN FLORIST and *Gardening* together to one address for $1.75. Send orders to the American Florist Co.

CUT FLOWERS.

Novelties and New Introductions in

ROSES AND CHRYSANTHEMUMS.

Fine Exhibition Stock.

THOS. YOUNG, JR.,
WHOLESALE FLORIST,
20 WEST 24TH ST., NEW YORK.

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St., BOSTON, MASS.

DAN'L B. LONG,
COMMISSION • FLORIST,
495 Washington St., BUFFALO, N. Y.
FORCING BULBS, FLORISTS' SUPPLIES, LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application.

VALLEY. Plenty of it.
ROMAN HYACINTHS always on hand.
LIL. HARRISII, finest in the market.
ROSES. Best in the market.
Book your Christmas orders with us now.

J. B. DEAMUD & CO.,
45 Lake Street, CHICAGO.

"JACQ" ROSES the Year Around.

We are now Cutting THOUSANDS DAILY of

*** METEOR ROSES. ***

The finest Crimson Summer Rose, equal to "Jacq" in color and far superior in keeping qualities. Can supply it in quantity at all times. Prices on application.

F. R. PIERSON COMPANY,
Tarrytown-on-Hudson, N. Y.

CHRYSANTHEMUMS that have no superior.
VALLEY that can't be beat—it is fine.
ROSES, all varieties first-class.
CARNATIONS in variety.
*** * ADIANTUM, ASPARAGUS and all flowers in season.**
Send in your orders; we can fill them; and will properly pack and ship on time.

CORBREY & McKELLAR,
WHOLESALE AND COMMISSION FLORISTS,
PHONE, MAIN 4508. 45 Lake St., CHICAGO.

FOR DECORATING, NOTHING CAN EQUAL
ASPARAGUS PLUMOSUS NANUS.
CUT STRINGS 8 TO 12 FEET LONG, 50 CTS. 12 TO 18 FEET LONG, $1.00.
Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.
W. H. ELLIOTT, Brighton, Mass.

H. L. SUNDERBRUCH,
Wholesale Florist
4TH AND WALNUT STREETS,
Cincinnati, O.

W. ELLISON,
WHOLESALE
Cut Flowers AND Florists' Supplies
1402 PINE STEET,
St. Louis, Mo.

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
WHOLESALE
FLORIST,
1122 PINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

Wholesale Florists
The La Roche & Stahl Flower Co. Limited.
N. E. CORNER
13th & Chestnut Sts.
PHILADELPHIA.

SAMUEL S. PENNOCK,
Wholesale Florist
REAR OF 42 S. 16th STREET,
Philadelphia, Pa.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO.

THANKSGIVING PRICES.	Per 100
Perles, Niphetos, Gontier	$ 2.00@$ 3.00
Bride, Mermet, La France, Victoria	3 00@ 5.00
Testout, Meteor	5.00@ 6.00
Am. Beauty	12.00@ 25.00
Carnations, long	1.00@ 1.50
" fancy	2.00
" short	.50@ 1.00
Valley, Romans, Paper White	4 00@ 5.00
Harrisii, Callas	12.00@ 18.00
Violets, single $1.00; double	1.50
Chrysanthemums, common	2.00@ 6.00
" fancy	8.00@ 20.00
Smilax	18.00
Ferns, common per 1000 $2.50.	.30
Adiantum	1.00
Fresh Cycas leaves $1.00 each.	

Western Agent for the GREAT ANTIPEST.

FLINT KENNICOTT, President. FRED. W. H SUNDMACHER, Sec'y and Treas.

Kennicott Bros. Co.
34 & 36 RANDOLPH STREET,
CHICAGO.
WHOLESALE CUT FLOWERS,
and FLORISTS' SUPPLIES.

WIRE WORK A SPECIALTY.

General Agents for Chicago and the Northwest of Kelsey's Beautiful New Southern Galax Leaves, $2.00 per 1000; 25 cents per 100.

A. L. RANDALL,
Wholesale Florist,
126 Dearborn St., CHICAGO.

Agent for finest grades Waxed and Tissue Papers.

NILES CENTER FLORAL CO.
Incorporated.
WHOLESALE GROWERS OF
CUT FLOWERS of ALL KINDS
and Dealers in FLORISTS' SUPPLIES.
In Chicago Cut Flower Exchange,
45 Lake Street, CHICAGO

REINBERG BROS.
WHOLESALE GROWERS OF
CUT FLOWERS
Roses, Carnations and Violets Specialties.
51 WABASH AVENUE,
Telephone 4937. CHICAGO.

WHOLESALE FLORISTS,
JOBBERS IN . . . FLORISTS' SUPPLIES, FLORISTS' VASES.
METS, BRIDES, GONTIERS, CARNATIONS, ALWAYS ON HAND.
1 Music Hall Place,
BOSTON, MASS.
HORTICULTURAL AUCTIONEERS. . .

CUT SMILAX,
15 cts. per string till November 1st. Quality first-class. Special attention to orders by wire.
E. BONSALL & SON, 308 Garfield Ave., Salem, O.

Wholesale Markets.

Cut Flowers.

NEW YORK, Nov. 27.

Roses, Gontier, Niphetos	2.00
" Perle, Hoste	2.00@ 3.00
" Mermet, Bride	2.00@ 4.00
" Cusin, Watteville	2.00@ 4.00
" Meteor, Augusta Victoria	4.00@ 8.00
" Testout	4.00@12.00
" Beauty	5.00@40.00
Valley	3.00@ 4.00
Hyacinths, narcissus	2.00
Violets	1.00@ 2.50
Carnations	.75@ 2.00
Chrysanthemums	5.00@20.00
Smilax	10.00@12.00
Adiantum	1.00
Asparagus	50.00
Rose geranium, per bunch	25c
Roses in quantity, per 1000 $10 to $15	

BOSTON, Nov. 27.

Roses, Gontier, Niphetos	2.00@ 3.00
" Perle, Sunset	4.00@ 5.00
" Bride, Mermet	3 00@ 6.00
" Meteor, Testout	4.00@ 8.00
" American Beauty	16.00@35.00
Carnations	.75@ 1.50
Chrysanthemums	6.00@ 8.00
Violets	1.00
Lily of the valley	4 00
Romans, narcissus	3.00@ 4.00
Harrisii, callas	12.50
Smilax	12.50
Adiantum	1.00@ 1.50
Asparagus plumosus	50.00@75 00
Stevia, bouvardia	1.00
Pansies	.50@ .75
Mignonette	2.00@ 4.00

PHILADELPHIA, Nov. 27.

Roses, Perle, Gontier, Niphetos	2.00@ 3.00
" Cusin, Watteville, Hoste	2.00@ 3.00
" Bride, Mermet, Bridesmaid	4.00@ 5.00
" Meteors, Kaiserin, La France	4.00@ 8.00
" Belle, Beauty	16.00@20.00
Carnations, long	1.00@ 1.25
" short	.75
" Edna Craig	2.00
Violets, per 100 bunches, single $3 to $4	
" double	.75@ 1.00
Chrysanthemums, first choice	16.00
" second choice	6.00@ 8.00
Valley	3.00@ 4.00
Romans, Narcissus	4.00
Longiflorums, callas	8.00@12.00
Smilax	12.00@15.00
Asparagus, per bunch and string 50c to 75c	
Adiantum	1.00@ 1.50

CHICAGO, Nov. 28.

Roses, Perle, Gontier, Niphetos	2.00@ 3.00
" Bride, Mermet, La France	3.00@ 5.00
" Kaiserin	3.00@ 5.00
" Meteor, Testout	5.00@ 7.00
" Beauties	12.00@25.00
" Bridesmaid	6.00
Carnations, long	1.00@ 1.50
" short	.50@ 1.00
" fancy	2.00
Valley, Romans	4.00@ 5.00
Paper White Narcissus	2.00@ 5.00
Harrisii, Callas	12.00@18.00
Violets	1.50
Chrysanthemums, common	2.00@ 6 00
" fancy	8.00@25.00
Smilax	12.00@18.00
Asparagus	50.00@75.00

ST. LOUIS, Nov. 27.

Roses, Gontier, Niphetos	3.00@ 4.00
" Bride, Mermet, La France	4.00@ 5.00
" Kaiserin, Testout	4.00@ 5.00
" Beauty	10 00@30.00
Carnations, long	1.50@ 2.00
" short	1.00
Valley, Romans	3.00@ 4.00
Callas	10.00@12.00
Chrysanthemums, common	2.00@ 5.00
" select	15.00@20.00
Smilax	12.00@18.00
Ferns, fancy 1.75 per 1000	

BUFFALO, Nov. 27.

Roses, Beauties	12.00@20.00
" Mermet, Bride, Meteor	5.00@ 6.00
" Testout, La France	6.00@ 8.00
" Gontier, Niphetos, Hoste, Perle	4.00@ 5.00
Valley	4.00@ 5.00
Violets	1.20@ 1.50
Hyacinths	3 00@ 4.00
Carnations, long	1.50@ 2.00
" short	1.00
Chrysanthemums	5.00@15.00
Smilax	15.00@20.00
Adiantum	1.50
Asparagus	50.00

GEORGE A. SUTHERLAND,
SUCCESSOR TO
PECK & SUTHERLAND,
Successors to WM. J. STEWART,
CUT FLOWERS
and Florists' Supplies.
WHOLESALE.
67 Bromfield St., BOSTON, MASS.
Mention American Florist.

BURNS & RAYNOR,
29 West 28th Street,
NEW YORK,
Wholesale Dealers in
and Shippers of
Choice Flowers
OUR SPECIALTIES:
Chrysanthemums, American Beauties, Meteors.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST,
32 West 30th Street, NEW YORK.
Roses Shipped to all points. Price list on application.

Violet Growers
find the best outlet for First-Class Blooms
AT
JOHN YOUNG'S,
53 West 30th Street, NEW YORK.
The largest and finest stock in the country is now coming to this establishment.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS,
51 W. 30th St., NEW YORK.

JAMES HART,
WHOLESALE FLORIST,
117 W. 30TH ST., NEW YORK.
The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE CAREFUL PACKING.

THEO. ROEHRS,
WHOLESALE
FflorisT,
111 WEST 30TH STREET,
NEW YORK CITY.
Established 1879.

MILLANG BROS.,
Wholesale Florists,
17 WEST 28TH STREET,
NEW YORK.
BRANCH: Cut Flower Exchange, 408 E. 34th Street.

MICHAEL A. HART,
Wholesale AND Commission Florist
113 WEST 30TH STREET,
. . . NEW YORK.
THE FINEST ROSES AND CARNATIONS.
Branch, at Cut Flower Exchange, 408 E. 34th St.

Edward C. Horan,
34 W. 29th Street, NEW YORK,
WHOLESALE FLORIST.
Careful Shipping to all parts of the country
Price list on application.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and treasurer, 116 Chambers street, New York. Next annual meeting second Tuesday in June, (will probably be held in Toronto.)

Review of the Fall Bulb Trade in New York.

On Roman hyacinths, candidum lilies, paper white narcissus and French bulbs in general trade has not been as good as was anticipated at the time import orders were given. In March, which is the month in which orders are placed for most of these goods, everybody was looking forward to a good season and ordered accordingly. In the case of Roman hyacinths all the dealers came with the same story from France, of a short crop. Every jobber was offered a chance to speculate and many of them accepted and bought larger than the demand of the subsequent dull season justified. The short crops previously reported proved plenty long enough for the demand and there was no lack of supply. The florists, however have continued buying through the fall better than usual and many dealers who have been feeling discouraged have managed to clean up well, especially on the large sizes. The small sizes, which are wanted only for early forcing, are very abundant and many have found their way to the auction rooms. Colored Romans have not sold as well as usual this year.

Candidums do not cut the figure in the forcing bulb trade which they once did. The demand has been on the decrease for some years past and this year it is especially noticeable. The low price at which Harrisiis have been offered is in part responsible for this. Paper white narcissus have been but an insignificant item in this year's trade.

When Dutch bulbs were ordered in April and May, the panicky feeling had begun to manifest itself among the people and everybody ordered cautiously and light. In consequence many kinds ran decidedly short and had to be replenished by cable orders. Jobbers were encouraged to speculate and heavy consignments of goods were brought over late, but a fairly satisfactory market was found for all. Wm. Elliott, the veteran auctioneer, reports that he sold more Dutch bulbs at auction this fall than in any previous season of his forty years experience. The demand for forcing tulips has certainly fallen off, but this result was anticipated by the jobbers who had been watching the unsatisfactory prices realized by the cut flower growers last winter, and ordered considerably lighter. So although the demand has been less than last year yet the stock being smaller, has been well cleaned up and there will be no overstock. Dutch forcing hyacinths were also ordered short and like the tulips are well sold out. Named varieties have not sold as well as previously, cheap grades being mainly in demand.

For daffodils there has been a good average demand, Von Sion especially having shown an increased market. The same is true of freesias, which have sold unexpectedly well, although a surplus has been left with several jobbers. Lily of the valley is now in and it is too early to give final results. It may be said, however, that valley has been very plenty for the past two years and prices are low. There appears to be a fair demand for pips but there is not a great quantity in sight, and there are no large stocks going into cold storage apparently.

In Harrisii lilies the trade has been poor. The bulbs have been of good quality but the Harrisii business has plainly been overdone, and the results to flower growers have not been particularly encouraging, and they are inclined to be conservative this year. Quantities of bulbs have been sold late in the season at a very small margin, and some consignments have even been returned to the shippers in Bermuda.

The retail trade has not been equal to last year. It has been a grand season for outdoor planting and the ground is still open. Bedding tulips in common mixture have sold somewhat better than last season. Dutch bedding hyacinths are getting low in stock, having been ordered very light in spring. But counter trade is very much slower than usual, the dull times having plainly affected the small buyers. Chinese narcissus have sold fairly well, but the big bargain drygoods stores have got hold of them and the prices have gone away down. Mail trade has suffered severely. There has been a falling off of from 30% to 50% from last year, and in consequence there is a large accumulation of miscellaneous small light bulbs on hand.

The prospects are promising for the Japan lily trade. Auratum, lancifolium album and rubrum all show an increased demand, with indications of returning popularity.

Seedsmen are looking confidently for a good spring trade. There appears to be a short supply of many specialties both American and foreign and contracts are being filled only partially. There is nothing striking promised in the way of novelties.

Recent visitors to New York, Mr. W. A. Brotherton of Lohrmann Brothers & Co., Detroit, J. Comont, London, Eng., and Jas. Meggatt, Wethersfield, Conn.

J. L. STACK Co. succeed J. L. Stack & Co., advertising agents, St. Paul, Mr. C. E. Ellis retiring from the firm.

THE DULL MARKET for onions at present and full stocks all over the country may have some effect on seed sales the coming season.

THE Northrup, Braslan & Goodwin Co. will on January 1 open a wholesale seed warehouse at Chicago. It will be devoted exclusively to the jobbing trade and located in the new fireproof Bradley Building at 55, 57 and 59 No. Jefferson street. The Minneapolis house will continue as usual.

Oscar Knopff & Co.,

SEED GROWERS, ERFURT, GERMANY,

Flower, Kitchen Garden, Etc. Seeds.

LILY OF THE VALLEY BULBS.

Best qualities at low prices. Orders promptly executed.

MEDAL AWARDED AT WORLD'S COLUMBIAN EXPOSITION

Sole Agents for United States and Canada:

C. B. RICHARD & CO., 61 Broadway, NEW YORK.

☞ Trade Catalogue for 1894 free on application.

ELECTROTYPES of VEGETABLES, FLOWERS, ETC.

VILMORIN, ANDRIEUX & CO., Seed Growers, Paris.

Apply for Catalogues. Novelty sheet now ready.

Complete Stock in New York

—WITH—

THEO. PABST & CO., 26 Barclay Street.

FIFTY THOUSAND

PEARL TUBEROSES

F. O. B. NEW YORK.

We offer selected bulbs of above, from four to six inches in circumference, for shipment early in December, at $9.00 per 1000. Orders accepted subject to being unsold.

SWEET PEAS, California grown.

We are headquarters for California grown Sweet Peas, and parties desiring to contract for their requirements for season of 1894, will do well to write for prices.

SUNSET SEED & PLANT CO.

(SHERWOOD HALL NURSERY CO.)

427-9 Sansome St., *San Francisco, Cal.*

J. A. BRUCE & Co. of Hamilton, Ont., were burned out on the 20th inst.

Catalogues Received.

W. H. Cassell, Canton, Miss., trees, shrubs, plants and bulbs; J. M. Thorburn & Co., New York, trade list seeds; J. H. H. Boyd, Cagle, Tenn., tree and shrub seeds; Fred. Roemer, Quedlinburg, Germany, seed novelties; V. Schmelz, Sylvan Lake, Fla., native wild plants, bulbs, moss, etc.; A. Blanc, Philadelphia, electrotypes of flowers; Wm. Krumm & Sons, St. Joseph, Mo., floral designs, etc.; Brooks Sisters, Sorrento, Fla., bulbs and plants; Harlan P. Kelsey, Linville, N. C., native ornamental plants; Adolph Schmidt, Berlin, Germany, garden tools.

Heating Pipes.

How much 1¼-inch steam pipe shall I use in a three-quarter span house 21x140 to maintain a temperature of from 55° to 60° all winter? How many square feet of glass do you reckon to the lineal foot of steam pipe? J. C.

The following formula will determine the amount of pipe that will be required: The surface feet of glass area, plus one-tenth of the surface feet of wall area, divided by three. This will equal the number of lineal feet of 1¼-inch pipe needed to maintain 55° to 60° in zero weather.

LINCOLN PIERSON,
Sec'y Lord & Burnham Co.

STOCK PLANTS OF

THE QUEEN,
CRAIGE LIPPINCOTT,
MRS. L. C. MADEIRA,
MRS. JEROME JONES,
GOLDEN WEDDING,

AND ALL THE PRIZE WINNERS. Good plants of above at 50 cts. each.

SEND US THE LIST which you made up at the shows and we will **fill it all** and save you money.

J. C. VAUGHAN,

NEW YORK: 26 Barclay Street.
CHICAGO: 146 & 148 W. Washington Street.

CHRYSANTHEMUMS.

STOCK PLANTS

—OF ALL THE—

BEST VARIETIES.

☞ *PRICES ON APPLICATION.*

NATHAN SMITH & SON,

Adrian, Mich.



Write for Wholesale List.

MICHEL PLANT AND BULB CO., ST. LOUIS, MO.

Mention American Florist.

CHOICE SWEET PEAS.

Being the largest growers of the above in the world the trade are invited to send a list of their requirements and secure low prices for Fall delivery.

SHERWOOD HALL NURSERY CO.
Menlo Park and San Francisco, Cal.

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN, CONN.



TRY DREER'S GARDEN SEEDS,

Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.

HENRY A. DREER, Philadelphia, Pa.

Bulbs. Bulbs. Bulbs.

SURPLUS STOCK.

	Per 100	Per 1000
LIL. HARRISII, 5—7.	$1.75	$15.00
" " 7—9.	3.00	25.00
" CANDIDUM simplex, large bulbs	2.50	20.00
ROMAN WHITE HYAC., 11—15 . .	1.75	15 00
ITALIAN, blush white Hyac., 13—17	2.00	18.00
NARCISSUS CAMPERNELLE. . .	.70	5.00
" Chinese Sacred Lily, extra large	3.50	30.00

☞ All other bulbs very cheap.

HULSEBOSCH BROS.,
58 West Street, NEW YORK CITY.
Mention American Florist.

Lilium Superbum

12,000 SPLENDID BULBS.

	Per 100	Per 1000
1st Size, extra.	$6.00	$45.00
2nd Size, fine.	3.50	30.00
3rd Size, strong.	3.00	20.00

Finest stock on the market. Immediate orders.

Harlan P. Kelsey,

HIGHLANDS NURSERY. LINVILLE, N. C.

Choice Lily of the Valley Pips.

Ernst Reimschneider, Altona, Hamburg.

For Fall Importation. Catalogues free on application to his sole agents,

C. C. ABEL & CO., P. O. Box 920, New York.

6,000 CINERARIAS.

Fine, thrifty young plants, 2¼-inch pots, ready for 3-inch pots, $2.50 per hundred.
VIOLETS—Large clumps, $5.00 per hundred.
STEPHEN WHITTON, 11 Roberts St., Utica, N. Y.

Always mention the American Florist when writing to advertisers.

WATSON'S CORNER.

I intend to remain up in this corner permanently. Watch it for special announcements from time to time.

G. C. WATSON,
Wholesale Seedsman and Commission Merchant,
1025 ARCH ST., PHILA., PA.

SEND for Catalogue of



JAPAN BULBS, SEEDS and SHRUBS, ARAUCARIAS, TREE FERNS, AUSTRALIAN PALM SEEDS, CALIFORIA BULBS and SEEDS to

H. H. BERGER & CO.,
Established 1878. SAN FRANCISCO, CAL.

Z. De Forest Ely & Co.

WHOLESALE SEEDSMEN,

Growers AND Importers of Bulbs.

JOBBERS IN FLORISTS' SUPPLIES.

1024 Market Street, PHILADELPHIA, PA.
Price lists to dealers on application.

WE SELL MUSHROOM SPAWN,

LILIUM HARRISII AND DUTCH BULBS.

Special Low Prices to Florists & Dealers.

WEEBER & DON,
Seed Merchants and Growers,
114 Chambers Street, NEW YORK.

VALLEY PIPS.

Our XXX strain is a favorite with leading growers for Xmas forcing.

SAMPLE CASES OF 2,500 PIPS, AT $21.00.

W. W. Barnard & Co.

6 and 8 N. Clark Street, CHICAGO.

BARGAINS,

in these plants, to move quickly. I need the room.

	Per 100
Geraniums, best bedders, strong, 2-inch.	$ 2.00
" Bronze, strong, 2-inch.....	3.00
" Mme Sallerol, strong, 2-inch..... .	1.50
Petunia, double, best sorts, strong, 2-inch	2.50
Primroses, single, best strain, strong, 2½-inch....	3.00
" single, best strain, strong, 3-inch ...	5 00
1500 Carnations, Portia, extra nice field grown ..	5.00
1000 " Fred Dorner, extra nice field grown	5.00
100 " Harry Palmer. " "	5.00
200 " Garfield, medium size, but good....	5.00
200 " Tidal Wave. "	4.00

Farleyense Ferns, vigorous plants, 3-inch, 25c. each.
Chrysanthemums, stock plants, best sorts, 10 for $1.00
Rooted Cuttings Coleus, splendid asst., 50c. per 100.
" " Geraniums, best bedders, labelled, $1 25 per 100.
" " Geranium Mme. Sallerol, $1.00 per 100.

N. S. GRIFFITH, Independence, Mo.

Independence is well located for shipping, being 8 miles East of Kansas City, Mo.

200,000 Pansies.

The Jennings strain of large flowering and fancy pansies may still be had in any quantity wanted. Plants are field grown, and are fine and stocky. Pure White, Yellow mixed, by Express, $5.00 per 1000; 5000 $20.00; 10,000 $35.00. Small plants by mail, 60c. per 100.
Seed of either of the above, $1.00 per trade pkt. of 2,500 seeds. The leading strain. The largest sales. Always satisfactory.

ADDRESS **E. B. JENNINGS,**
WHOLESALE PANSY GROWER,
Lock box 254. SOUTHPORT, CONN.

FOR SALE.

ADIANTUM CUNEATUM out of 4-inch. Fine strong plants for immediate use at $15 per 100.

A. M. & J. B. MURDOCH, Pittsburg, Pa.

News Notes.

CHAMBERLAIN, S. D.—E. C. Newbury has removed to Mitchell, S. D.

MITCHELL, S. D.—E. C. Newbury, formerly of Chamberlain, has located here.

WARE, MASS.—Collis & Tucker had a fine exhibit at the chrysanthemum show at Springfield, containing over 200 blooms.

ATCO, N. J.—William F. F. Murray died November 22. He was a well known grower and a member of the Society of American Florists.

SAGINAW, MICH.—Herman Schmeiske has removed to Rockville, Conn., where he will join his brother, who has three greenhouses and five acres of land there.

HAGERSTOWN, MD.—Wm. Bester has built a new three-quarter span rose house 20x100, with a north side propagating house. His roses and carnations are in fine condition.

CHAMBERSBURG, PA.—Wm. B. Reed has added two new houses 12x75 and put in a new heating apparatus, using the system of hot water under pressure. He heats ten houses with one boiler.

COLORADO SPRINGS, COLO.—Victor Johnson, formerly of Pueblo, has removed to this city, where he has five greenhouses 20x75, mostly devoted to roses, carnations and violets for the wholesale trade. Mr. J. E. Miller is in charge of his Pueblo property.

CLINTON, IOWA.—John R. Bather, the well known florist, died November 20, aged 66 years. He was born in Manchester, England, Nov. 7, 1827. When 21 years of age he came to America, locating in Albany, N. Y., where he remained 9 years. He came to Iowa 35 years ago. The business will be continued by his children.

The Grand New Forcing Rose,

"American Belle."

Prices and full particulars on application.

John Burton, Chestnut Hill, Philadelphia.

ROSES.

	Per 100	Per 1000
1500 Perle, 3-inch	$ 5.00	$40.00
1000 " 2½-inch	3.00	25.00
600 Bride, 2½-inch	3 00	25.00
1200 Mermet, 2½-inch	3.00	25.00
200 Hoste, 2½-inch	3.00	

BROWN & CANFIELD, Springfield, Ill.

Forcing Roses.

A stock of the best varieties always on hand.

M. A. HUNT, Terre Haute, Ind.

ROSES.

SOUVENIR DE LA MALMAISON

Own root plants, out door grown. $15 per 100.

ULRICH BRUNNER, own root plants, out door grown, $15 per 100. Budded on Manetti stock, $15 per 100.

EDWIN LONSDALE, Chestnut Hill, Phila.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

CARNATIONS.

I have fourteen houses planted to carnations, and they are under my special care and supervision so that I can guarantee every cutting sent out.

If you will kindly write to me stating what varieties you want, how many of each, and when they are to be delivered, I will give you figures and think we can make a deal.

ANNIE PIXLEY.—This is a new pink, and one that you want to try; it is one of those beautiful light pinks, just the proper color. The stems can be cut fifteen to twenty inches long, the calyx never bursts, and it is such a strong grower and free bloomer that you can't help but make money if you plant it.

Orders will be filled in rotation, beginning now. Price per 100, $12.00; per 1000, $100.00. Twenty-five at 100 rate, 250 at 1000 rates.

PANSIES.

I will have good little plants right along until April 1st. The strain is good, extra good, and the price is very low, quality considered. Per 100, 75c; per 500, $3.00, free delivery; per 1000, $5.00, you to pay the delivery.

GERANIUMS.

Rooted Cuttings, all first-class varieties and good bedders. Price, in mixture, $10.00 per 1000; $1.50 per 100. In separate colors, $12.00 per 1000, or $2.00 per 100. There are no medium varieties among these; all are A No. 1.

Samples of any stock free. Terms absolutely cash with the order or C. O. D.

L. B. 496. ALBERT M. HERR, LANCASTER, PA.

100,000 VERBENAS.

THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.

NO RUST OR MILDEW.

Packed light, and satisfaction guaranteed. Send for circular. . . .

We are the largest growers of Verbenas in the country. Our sales reaching last year 215,500. Our plants this year fully equal, if not surpass, any we have ever grown.

J. L. DILLON, Bloomsburg, Pa.

SWEETBRIER

Received 1st Premium for "best seedling of any color" at Phila., Nov. 7, '93. Color between Daybreak and Wilder.

"I like its color better than Daybreak."
EDWIN LONSDALE,

"Sweetbrier is all that can be desired."
W. A. MANDA.

Rooted cuttings, $10 00 per 100; $80.00 per 1000. Delivery to begin February 1, '94.

OPHELIA

Was winner of Craig Cup for best seedling at Phila., Spring of '93. Color darker than Wilder.

"That beats Edna Craig." BENJ. DURFEE.

"It is the best flower in your houses." ROBT. CRAIG.

Price and delivery same as above. Flowers of both the above brought $5.00 per 100 wholesale at J. R. Freeman's, Washington, last winter. Send for price list of other varieties.

EDWD. SWAYNE, Kennett Square, Pa.

Carnations.

Field plants all sold.

Orders solicited for early delivery of ROOTED CUTTINGS in varieties suitable for summer blooming.

C. J. PENNOCK,

The Pines. KENNETT SQUARE, Chester Co., PA.

CARNATIONS.

All the new and leading varieties. Send for prices on what you want.

GEO. HANCOCK, Grand Haven, Mich.

PALMS.

150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

Address GEORGE WITTBOLD,

1708 N. Halsted St., CHICAGO.

CYCLAMEN persicum giganteum 5-inch pots $10.00 per 100

GENISTAS, 2½-inch pots, strong plants, $6.00 per 100.

CARNATIONS, Dorner's Seedlings, $15 per 100 McGowau, Puritau, Wilder, and others, $8.00 per 100. Second size $6.00 per 100

Correspondence solicited.

Address J. G. Burrow,
FISHKILL, N. Y.

CUT FLOWERS.

Roses, Carnations AND Chrysanthemums.

Write for prices. . . .

GEO. A. KUHL, Pekin, Ill.

New Yellow Coleus.

The Golden Crown is a perfect beauty,
On the lawn will do its duty;
Its color, style, and growth are fine,
'Twill make the landscape fairly shine.

Fine stock now ready, $3.00 per dozen; (Golden Bedder we don't want you).

The Verbena of yore was a modest wee styme,
Scarcely as large as a silver dime,
Until Henderson, the great floral arter,
Produced them as large as a silver quarter.
Still we're progressing, florists may laugh,
Gibson shows them as large as a silver half.

P. S.—We have a fair stock of the progressive seed and will gladly supply it to all who may need. 500 seeds 50 cts.; ¼ oz. $1.00. 500 seeds 35 cts.; ¼ oz. 60 cts. Post free.

Gibson's Pansies need no praisers.
They're such beautiful, scented blazers,
500 seeds 30 cts.; ¼ oz. $1.00; nice stocky plants 50 cts. per 100; $4.00 per 1000.

Dreer is the Petunia king,
His elegant strains are just the thing.

Double hand hybridized, per 500 seeds 75 cts.; 1000 seeds $1.25. Plants and rooted cuttings, flats.

Field-grown gold and silver variegated Vincas $5.00 per 100. Snow Crest Daisies, nice young plants, flats, $5.00 per 100. Cash with order please.

Address *J. C. GIBSON, Woodbury, N. J.*

ASPARAGUS PLUMOSUS NANUS, good plants, from 4-inch pots $20 per 100

ASPIDISTRA, variegated. A few fine plants, 5 and 6-inch pots $4 per dozen

CLIVIA, from fine new European varieties, young plants, 4-inch pots $2 per dozen

EUCHARIS GRANDIFLORA, bulbs 5 to 6 in. circ., with healthy leaves. $3 per dozen

EULALIA UNIVITTATA $2 per 100; $15 per 1000

ARUNDO DONAX, variegated, strong roots, $2 per dozen. $15 per 100

IRIS GERMANICA, a fine pure white sort, perfectly hardy $10 per 100

PAEONIES, double white and double pink, two of the best, mixed $12 per 100

Any of the above will be sent on receipt of price with order.

ALEX. SCOTT,
Balto. Co., Lauraville, Md.

CLEMATIS.

Large flowering, colors in variety, double and single, strong blooming plants. Pleuty of Jackmanni and Henryi, best purple and white, $3.00 per dozen; $20.00 per 100. Send for list.

CYCLAMEN persicum splendens, blooming bulbs, $8.00 per 100.

Snowflake Daisy, double white, $1.00 per 100.

Longfellow Daisy, double red, $1.00 per 100.

F. A. BALLER, Bloomington, Ill.

HEADQUARTERS for WATER LILIES

SEED, TUBERS AND PLANTS.

Embracing all the newest and choicest in cultivation. Awarded SIX MEDALS at World's Fair—the highest number of awards for aquatics.

Illustrated descriptive Catalogue free on application.

Wm. TRICKER, DONGAN HILLS, New York.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Siebrecht & Wadley,

ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.

Palms,

ORCHIDS,

Roses,

and New Plants.

FRESH DRACAENA CANES NOW READY.

ORCHIDS.

The Finest Stock in the World.

SANDER'S,

ST. ALBANS,

ENGLAND.

Thirty minutes from London.

Our Mr. A Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

WHY NOT TRY

A FEW ORCHIDS?

They are Very Cheap. They are Easily Grown. They Sell Well.

They always attract attention in store or greenhouse.

BRACKENRIDGE & CO.,

304 W. Madison St., BALTIMORE, MD.

FRESH IMPORTED ORCHIDS.

Cattleya Gaskelliana,

5—7 Bulbs, $.75 each.
7—12 Bulbs, 1.25 each.
Larger plants, $2.00 to $5.00 each.

I. FORSTERMAN,

Newtown, N. Y.

Swainsona

GALEGIFOLIA ALBA.

The beautiful pea-like blossoms of this free blooming plant are produced in racemes three to five inches long.

IT IS ESPECIALLY VALUABLE TO THE FLORIST WHO GROWS AND RETAILS HIS OWN FLOWERS.

A few extra strong plants in bud and bloom, $4.00 per dozen.

Plants well established in thumb pots, $10 per 100.

EDWIN LONSDALE,

Money Order office, Station "H", Phila. | WYNDMOOR, nr. Chestnut Hill, PHILADELPHIA, PA.

THE BEAUTIFUL

GENISTA for EASTER

are unsurpassed either as plants or cut flowers. We have a few extra fine, bushy plants at a bargain to make room. Strong 4-inch, $1 50 per dozen; $10 00 per 100; 5-inch, $2.50 per dozen; $18.00 per 100.

A sample half dozen of each size for $2.00 cash with order.

HARRY CHAAPEL,

WILLIAMSPORT, PA.

	Per 100	Per 1000
Amaryllis Equestre	$ 4 50	$38 00
" Johnsoni	10 00	
Zephyranthus (Amaryllis) Atamasco	75	4 00
Crinum Kirkii	9 00	
Zamia integrifolia, per 100 lbs. $6.		
Sansevieras	4 00	35 00
Tillardsias or Air Plants in 5 vars.	2 00	10 00

Seeds of Nymphæa Zanzibarensis and N. Dentata, $3.00 per ounce.

For other stuff send for our trade list.

BRAND & WICHERS, San Antonio, Fla.

P. S.—We supply our brother florists with Fancy Oranges for Christmas, $2.00 per box.

Mrs. Craige Lippincott.

The finest Yellow Chrysanthemum yet introduced, and the best for commercial use.

GET STOCK PLANTS FROM THE ORIGINAL INTRODUCER.

$4.50 per dozen; $30.00 per hundred.

HUGH GRAHAM, 1204 Chestnut Street, Philadelphia, Pa.

3,000

Fine Stock Plants of

CHRYSANTHEMUMS.

Finest Market and Fancy varieties.

Send for list and prices.

W. C. COOK & CO.,

70th St. and Adams Ave.,

CHICAGO.

Chrysanthemums

FOR SALE: Stock plants of IVORY, A. SPAULDING, M. WANAMAKER, W. H. LINCOLN, H. E. WIDENER, MERMAID, at 2 for 25c.; 10 for $1 00; $10.00 per 100.

COL. WM. B. SMITH, KATE BROWN, and a few more good new ones, at 25c. each.

Orders booked now for rooted cuttings of Carnations and Chrysanthemums. Ivory A. Spaulding, and Wanamaker, Lincoln and Widener by the 1000 this year.

FRED. BURKI,

Wholesale Florist,

Allegheny Co. BELLEVUE, PA.

CHRYSANTHEMUMS.

STOCK PLANTS.

Ada Spaulding, Bride, Edward Hatch, Eva Hoyt, H. E. Widener, Hicks-Arnold, Ivory, Jessica, Kioto, Mrs. R. Craig, Mrs. L. C. Madeira, Mrs. Maria Simpson, Mrs. J. G. Whilldin, Mrs. Irving Clark, Minnie Wanamaker, Marguerite Jeffords, Mermaid, Tuxedo, at 25 cents per plant.

Anna Dorner, Etoile de Lyon, Gloriosum, H. Cannell, John Goode, Lillian Bird, Louis Boehmer, La Perle de Sole, Mrs. Langtry, Mrs. Lay, Mary Wheeler, Robt. Bottomley, Violet Rose, at 15 cents per plant.

MRS. EUGENIA T. POVALL, Booneville, Miss.

GERANIUMS.

At least 40,000 in flats, at	$15.00 per 1000
At least 20,000 in 2½-inch pots	20.00 per 1000
A few thousand Coleus in 2½-inch pots	20.00 per 1000
A few thousand Double White Petunias, 2½-inch pots, at	2.50 per 100
Ageratum, blue and white	2.00 per 100

At these prices the selection of sorts to remain with us.

The above are in fine condition.

Cash with the order.

J. E. FELTHOUSEN,

370 Van Vranken Avenue, SCHENECTADY, N. Y.

Verbenas

SPECIAL OFFER.

	Per 100	Per 1000
Unsurpassed Mammoths, 2¼-inch pots	$3.00	$25.00
" " rooted cuttings	1.25	10.00
General collection, named, " "	1.00	8.00
" " " 2¼-inch pots	2.50	20.00
H. P. Roses, dormant, strong	6 00	75.00
Tea " " "	6.00	50.00
Forcing " 3-inch pots, "	6.00	50.00

WOOD BROTHERS,

Fishkill, N. Y.

Chrysanthemums.

STOCK PLANTS.

The Queen.	Dr Mandeville.
Mrs. Craig Lippencott.	Harry Balsley.
K. Brown.	Mermaid.
W. N. Rudd.	Wanamaker.
Sue T. Price.	Mrs. J. G. Whilldin.
Mrs. Jerome Jones.	Ivory.
Ada Leroy.	Col. W. B. Smith.
Pres. Wm R. Smith.	Ed. Hatch.
Golden Wedding.	Geo. W. Childs.
Joey Hill.	The above at 25c. each.

The above at 50c. each.

All other varieties on application.

DAILLEDOUZE BROS.,

Flatbush, L. I., N. Y.

Mention American Florist.

PLANTS OF

CHRYSANTHEMUM

ETOILE D'OR,

(Single Yellow Daisy.)

will be ready for shipment 1st of December. Strong plants in 3-in. pots ready for a shift, **$4 per dozen; $25 per 100.** These plants will be ready to bloom last of January and continue until July. Ours were the only bloom in the Philadelphia market last year.

Stock Limited.

S. EDWARDS & SON,

478 Irving Ave., BRIDGETON, NEW JERSEY.

Rooted Cuttings

COLEUS, 10 sorts, **60c. per 100**

BY MAIL.

SAMPLE DOZEN, without names, mailed for 10 cts.

S. O. STREBY,

Lock Box 77,

UPPER SANDUSKY, OHIO.

HYDRANGEA,

THOMAS HOGG,

3 and 4-inch pots, $4.00 and $6.00 per 100.

BRAUER & RICHTER,

McCONNELSVILLE, OHIO.

Lady Hume Campbell.

I take pleasure in offering plants from the original stock of this grand **VIOLET.** Well rooted young plants, ready for delivery May 1, 1894.

PRICE, $3.00 PER 100.

This stock has always been entirely free from disease of any kind. Inspection invited. Orders booked now. **H. HUEBNER, Groton, Mass.**

Baltimore.

A rather amusing occurrence at the show was in connection with a wheelbarrow full of La France buds sent by Brackenridge & Co. for competition in the wedding designs and labeled "A gardener's wedding present." One of the daily papers next day praised it as a "chariot of roses," another called it a "Gardener's prison" and singularly enough an esteemed contemporary in the florist world has it "A gardener's prison" too. B. & Co. will have to be satisfied, though no doubt many were puzzled to know how a wheelbarrow could be a prison for anyone, let alone a gardener.

After the flurry of the show things have settled down very seriously. Now and then a wedding and one large ball during the week have kept business moving gently, though there seems no very steady demand for anything but violets, which are rather scarce at one dollar per hundred. Chrysanthemums are still plentiful, but not in very great demand, and really the only very steady demand outside of violets seems to be for flowers suitable for funeral designs. MACK.

PREPARE FOR THE HOLIDAYS.

YOU WILL NEED

Baskets in many shapes,
Jardinieres and Ferneries
in new designs,
Metal Wreaths and
Porcelain Flowers,
Immortelles and
Cape Flowers,
Doves and
Wheat Sheaves.

Consult our Catalogue and you can make no mistake.

Order our Goods and you will not regret it.

No old stock. Everything fresh.
New designs and novelties.
Prices down to hard pan.

H. BAYERSDORFER & CO.,
56 N. 4th St.,
PHILADELPHIA, PA.
☞ WHOLESALE ONLY. . . .
Mention American Florist

Association "Flora"
BOSKOOP, HOLLAND
NURSERIES.
Roses, Clematis, Shrubs, Azaleas, Palms, Herbaceous Plants, Bulbs, Etc.
Catalogue on Application.
P. OUWERKERK,
206 Cambridge Ave., JERSEY CITY, N. J.

DO YOU SEE THIS?

IMMORTELLES, all colors.
Milkweed Balls, all colors.
CHENILLE, Worsted and Silk, all colors.
CAPE FLOWERS, White and Colored.
SPRINKLERS.
Wheat Sheaves OUR SPECIALTY.
CYCAS LEAVES. Etc., Etc.

Have you our Catalogue?

We have been *silent* for some time, but our complete line of

Florists' Supplies

and low prices will speak loud for us now, and the trade will have the benefit of it.

SEND IN A TRIAL ORDER.
GET OUR CATALOGUE.
WE'LL DO THE REST.

DOVES.
Dried Grasses.
WIRE.
Bouquet Papers.
BASKETS.
Artificial Flowers
Wax Flowers.
Artificial Leaves.
METAL DESIGNS all styles. Etc., Etc.

MARSCHUETZ & CO., 23 & 25 N. 4th St., PHILADELPHIA, PA.
We supply in any quantity the Kelsey Galax Leaves and Christmas Greens of all descriptions.

HOW TO GROW CUT FLOWERS.
A PRACTICAL TREATISE ON
THE CULTIVATION OF THE ROSE,
And Other Flowering Plants for Cut Flowers, sent to any address upon receipt of $2.00. M. A. HUNT, Terre Haute, Ind.

TO FLOWER AND FRUIT GROWERS.
We offer Muriate Potash, Nitrate Soda, Bone Black, and all
Agricultural Chemicals,
Fungicides and Insecticides,
either crude or combined by standard formulas, in large or small lots, at lowest wholesale prices. Ground Tobacco Stems—Flower Fertilizer, put up in small packages for retail trade.
W. S. POWELL & CO.,
Fertilizer Manufacturers, Baltimore, Md.

CATALOGUE PRINTING.
ELECTROTYPING.
Done with expert ability for Florists, Nurserymen, Seedsmen. Write to
J. Horace McFarland Co.
. . . HARRISBURG, PA.

E. G. HILL & CO.,
Wholesale Florists
RICHMOND, INDIANA.

Always mention the American Florist when writing to advertisers.



Florists' Pins
Glass Heads, in Black or White.
PRICES:
1, 1½, 2, 2½, 3, 3½, 4 inches,
50c, 75c, $1.00, $1.25, $1.50, $1.75, $2.00 per 1000
For Sale by
August Rolker & Sons, New York.
H. Bayersdorfer & Co., Philadelphia.
N. F. McCarthy & Co., Boston.
E. H. Hunt, Chicago.
J. C. Vaughan, Chicago.
W. Ellison, St. Louis.
E. W. Crook, San Francisco.
S. Tidy & Son, Toronto, Ont.
Edw. Mullin, Kingston, Ont.
AUG. F. BRABANT, Manufacturer,
54 Warren Street, NEW YORK.

For Mildew on Roses
and CARNATION RUST,
USE FOSTITE.
Book on Fostite sent free.
Address C. H. JOOSTEN,
3 Coenties Slip, NEW YORK.

TRADE MARKS. COPYRIGHTS.
SOLICITOR OF U. S. AND FOREIGN PATENTS.
Atlantic Building, Washington, D. C.
(Send sketch or model for free examination as to patentability.

Metal Memorial Designs,

WREATHS, CROSSES, HEARTS, STARS, ANCHORS, PILLOWS, BOUQUETS, ETC.,
of White or Green Metal Foliage and Porcelain Flowers.



True to Nature
Artistic
Chaste
Durable
Profitable
} The best Xmas Cemetery Decoration.

Buy from Headquarters.

SEND IN YOUR ORDERS NOW.

For prices examine our Trade List, mailed free.

We put up

Well Assorted Collections for $10, $15, $20, $25, $30, $40, $50 net and more.

Strong Easels for above, nicely bronzed, furnished at 15, 18, 25 and 30 cts. each net.

Cycas Leaves, (Sago Palm), natural prepared, equal to fresh cut, always on hand, at 40c, 45, 50, 60, 75c and $1.00, according to size. **Cape Flowers, Immortelles, Wheat Sheaves, Moss, and a full line of Florists' Supplies. Send for Trade List**

August Rölker & Sons, New York.

136 & 138 West 24th Street, near 6th Avenue, or Station E.

ERNST KAUFMANN & CO.

Florists' Supplies,

113 N. 4TH STREET,
PHILADELPHIA, PA.

HUNTINGTON SEED CO.

Florists' : Supplies,

66 E. WASHINGTON ST,
INDIANAPOLIS, IND.

Standard Flower Pots, Dried Grasses, Fancy Baskets, Metal Designs. Trade Catalogue mailed free.

Increase Your Business

by fostering an interest in plants and flowers among the people in your vicinity. You can best do this by getting subscribers to

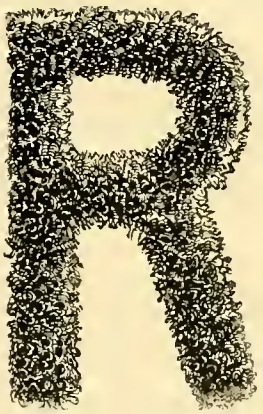
GARDENING . . .

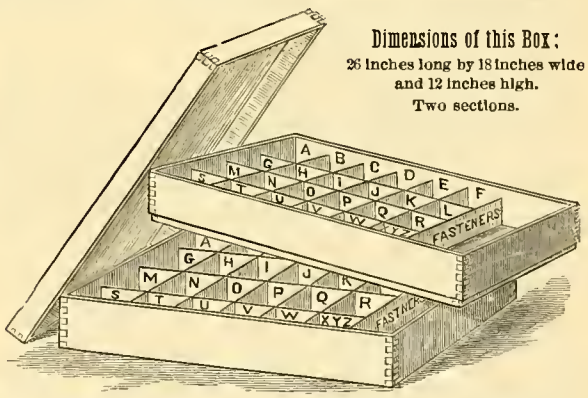
which tells people how to get the most satisfaction out of their gardens, and stimulates them to enlarge and extend their gardening operations.

$1.00 A YEAR is the subscription price of this paper, which is issued twice a month, is handsomely and truthfully illustrated, is thoroughly practical, absolutely free from wind and gush and grinds no axes for anyone.

SPECIAL LOW RATE to florists who will act as agents. We want an agent in every city and town in America. Write for terms now to

THE GARDENING CO.
Monon Building, CHICAGO.





Dimensions of this Box:
26 inches long by 18 inches wide and 12 inches high.
Two sections.

With an order for 500 letters, we furnish a box made of wood, nicely stained and varnished, such as is represented in the cut.

BOSTON FLORIST LETTER CO.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1½-in. and 2-in. 2.00 per 100. Patent fastener with each letter.

OUR NEW SCRIPT LETTER, $4.00 per 100.

N. F. McCARTHY, Treas. & Mangr. | Address 13 Green St., **Boston, Mass.**

Address all correspondence to 1 Music Hall Place.

We have a new **FASTENER** which we consider a decided success. Any customers having old style fasteners which they wish to exchange, can do so without additional cost by writing us.

AGENTS.

A. Rolker & Sons, New York.
Marschuetz & Co., 25 N. 4th St., Phila., Pa.
F. E. McAllister, 22 Dey St., New York.
A. D. Perry & Co., 33 Warren St., Syracuse, New York.
Ernst Kaufmann & Co., 113 N. 4th St., Phila.
H. Bayersdorfer & Co., Philadelphia, Pa.
A. C. Kendal, 115 Ontario St., Cleveland, O.
J. A. Simmers, Toronto, Ont., Agent for Canada.
E. H. Hunt, 79 Lake St., Chicago, Ill.
Wisconsin Flower Exchange, 131 Mason St, Milwaukee, Wis.
H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.
T. W. Wood & Sons, 6th and Marshall Sts., Richmond, Va.
Jas. Vick's Sons, Rochester, N. Y.
C. A. Kuehn, 1122 Pine St., St. Louis, Mo.
D. B. Long, Buffalo, New York.
C. F. Huntington & Co., Indianapolis, Ind.
Z. De Forest Ely & Co., 1024 Market St., Philadelphia, Pa.
Portland Seed Co., 171 2d St., Portland, Ore.

These Letters are handled by all the Wholesalers in Boston.

Mention American Florist.

MAIL

LOCK THE DOOR BEFORE THE HORSE IS STOLEN. *DO IT NOW.*

JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

THE GREAT ANTIPEST.

For particulars, see next week.
R. W. CARMAN, GEN'L AGT.,
291 Amity Street, FLUSHING, Queens Co., N. Y.

Liability for Injury to Trees by Escaping Gas.

Shade trees, shrubbery and vegetation generally may be injured by escaping gas. The great difficulty is to prove the cause of injury, especially in a suit for damages. But the general term of the Supreme Court of New York in the case of Evans v. Keystone Gas Company has just decided that certain circumstantial evidence is admissible for such purpose, and, in fact, sufficient. This was an action brought to recover damages alleged to have been sustained in the injury to certain premises in the village of Olean, New York, by the negligence of the gas company in that it permitted its gas main laid in front of said premises to leak, and thereby destroyed three maple shade trees standing near the street, which had been there fifteen years and had attained the size of about fifteen inches in diameter. They were represented to have been fine, thrifty trees, not only ornamental but useful to the premises as a shade in the summer season. The evidence offered to prove this case was that the gas company at a certain time placed beneath the surface there an eight-inch main pipe from which were extended lateral pipes as they were wanted for the purpose of lights. Evidence was also furnished tending to prove that gas quite abundantly leaked from the main from the time it was placed there until it was repaired, about three years afterwards, and that, in consequence of such leakage, vegetation along the street was, to some extent, destroyed during the period of such leakage. It was shown to be impossible at that time to make young trees along there survive, while thereafter they lived and were thrifty. Other maple shade trees on the same side of the street were, during the same period, for a considerable distance from those in question, affected in like manner, which tended to prove that gas leaked from the main pipe along that entire distance. This evidence, taken together, the court said permitted the conclusion that the negligence of the gas company in its failure to put and keep its main in proper condition was the cause of the injury complained of. It also suggested that it might be assumed that the damages recoverable in such a case would be the value of the premises with and without those shade trees.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

GLASS

which is absolutely perfect for modern greenhouse construction.

ROCK BOTTOM PRICES.

Send for Estimates. Satisfaction Guaranteed.

REED GLASS CO.,

65 Warren Street, and 46, 48 & 50 College Place, NEW YORK CITY.

— OUR —

SASH LIFTER AND HINGES

will do the work and cost you less than any other Send your name and address and we will mail you description and price.

BAY STATE HARDWARE CO.

272 Freeport Street, BOSTON, MASS

Send orders for . . .

CLEAR CYPRESS

Greenhouse Material

from bottom of gutter up.

Correspondence solicited. Estimates cheerfully furnished.

LYMAN FELHEIM, ERIE, PA.

NEW DIRECTORY.

Below is a dummy showing the size of the printed part of the page of the corrected edition of our Trade Directory and Reference Book, to be issued Feb. 1 next, with prices for advertisements.

One-half page
Price $15.00
including copy of the book.

One-fourth page
Price $9.00
including copy of the book.

One-eighth page
Price $5.00
including copy of the book.

Price of full page
is $25.00
including copy of the book.

Every adv. will be placed opposite important reference matter.

You ought to be in it. Come in now and we'll give you an outside room, handsomely furnished and convenient to the elevator and fire escape.

AMERICAN FLORIST CO.,

P. O. Drawer 164. CHICAGO.

TO TAKE PLACE OF WIND MILLS

HOT AIR PUMPING ENGINES

A Windmill

Is unreliable because it depends upon the elements for its power; hydraulic rams also depend upon favorable conditions and waste as much water as they secure. Steam pumps require skill and hand pumps demand labor and time. The

DE LAMATER-RIDER OR DE LAMATER-ERICSSON Hot-Air Pumping Engines

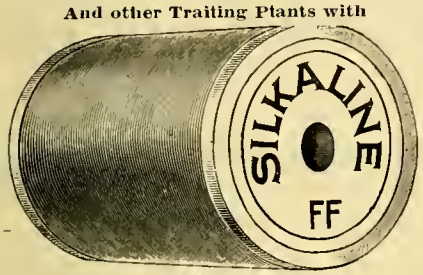
are especially designed for pumping water, and from shallow streams or any kind of well. They are simple, safe and reliable, require no steam and have no valves. They require very little heat to operate them, and can be arranged for any kind of fuel.

Send for illustrated catalogue to

THE DE LAMATER IRON WORKS,
87 South Fifth Av.,
NEW YORK, N. Y.

STRING SMILAX

And other Trailing Plants with



JOHN C. MEYER & CO.,
289 Devonshire St., BOSTON, MASS.
For sale by all leading Florists' Supply Houses.

CUTS!

WOOD ENGRAVING,
PHOTO-ENGRAVING,
WAX ENGRAVING,
ZINC ETCHING,
HALF-TONE,
DESIGNING.

MANZ & CO.,
183 Monroe Street, CHICAGO. ENGRAVERS

J. N. STRUCK & BRO.

Manufacturers of

• CYPRESS •

Greenhouse Material,

LOUISVILLE, KY.

VERBENAS, MAMMOTH PLANTS, and Rooted Cuttings in perfect condition, bright colors in large quantities. Write me stating what you want. A few rooted Coleus and Pansy plants very low. W. B. WOODRUFF, Westfield, N. J.

Always mention the AMERICAN FLORIST when writing to advertisers.



Mention American Florist.

THE "LOCKLAND" Sash Bars

ARE ALWAYS SATISFACTORY.

This cut represents our Improved Clipper Bar for Butted Glass roof. **No Putty required.**

GUTTER MATERIAL, RIDGES, SASH, ETC.

The finest **CLEAR CYPRESS** used.

For circulars and estimates ADDRESS

LOCKLAND LUMBER CO.
Lockland, O.

SOLD BY THE SEEDSMEN.



TRADE MARK.

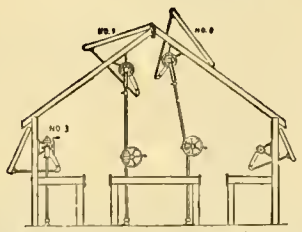
Prepared at HAMMOND SLUG SHOT WORKS, Fishkill-on-Hudson, N. Y.

VICTORY! VICTORY! VICTORY!

The only Certificate of Merit awarded for ventilating apparatus at the St. Louis Convention was to the

POPULAR STANDARD VENTILATING MACHINE

The florist's friend in working and prices.



No repairs for 5 years, no chains to break as is the result with others.

Opens Sash uniform on 100 foot houses. A new device.

Send for Catalogue and Estimates.

E. HIPPARD, Youngtown, Ohio.

THE CHAMPION Automatic Ventilator.

The cheapest, easiest to operate, and by far the best machine in the market. Don't buy a Ventilator until you have seen my illustrated descriptive circular, which will be sent you free, giving prices, etc. Also **Champion Soil Pulverizer and Sifter.**

Address, Box 114. E. E. WOLF, SPRINGFIELD, O.

EVANS' IMPROVED

CHALLENGE VENTILATING APPARATUS

Write for Illustrated Catalogue.
QUAKER CITY MACHINE WORKS, Richmond, Ind.
Mention American Florist.

FLORAL DESIGNS

The Cut Flower Worker's Friend. Fine book of 160 pages. Send **$3.50** for it, to
J. HORACE McFARLAND, Harrisburg, Pa.

When writing to any of the advertisers on this page please mention the American Florist.

Milwaukee.

A bit of artistic Japan, such as Sir Edwin Arnold has sung about, can be seen at Whitnall's flower store. The great windows as seen from without are massed with chrysanthemums, but the interior is still more gorgeous with these blossoms. There are chrysanthemums everywhere nodding the heads above the palms and ferns or filling great Satsuma with their own loveliness. Prettier even than the flowers are the Jap maidens in bright colored kimous who guard them. In a pagoda of white and yellow chrysanthemums a black eyed girl in the sweetest of yellow and white kimous, with a cluster of wonderful chrysanthemums that shade from the palest yellow to a golden brown, tucked into her sash, serves tiny cups of tea to every purchaser. Little Gordon Whitnall, with his mop of yellow curls twisted up a la Jap and dressed in a scarlet and yellow kimou, is a center of attraction. The display has been arranged for the patrons of the store and the general public, who are cordially invited to come and take a cup of tea and imagine that they are in flowery Japan. Clauder's orchestra will furnish music to add to the enjoyment of this unique flower show, which will be open and free to the public until to-morrow night.—*Milwaukee Journal Nov. 15.*

Foreign Notes.

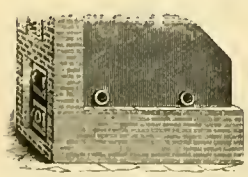
Cypripedium Clonius, which recently received a certificate from the Royal Horticultural Society, is a cross between C. candatum Lindeni and C. conchiferum. The doriel scpal is long and pointed, white veined with pale green, the pedals being similar in color, and nine inches long. The lip is ivory white faintly spotted with reddish brown.

Lælio-Cattleya Pisandra, a handsome bi-generic orchid recently exhibited in England, is a cross between Lælia crispa and Cattleya Eldorado. The sepals and pedals are of a pale rosy mauve, with a baight golden yellow throat.

Please mention the AMERICAN FLORIST every time you write to an advertiser.



GREENHOUSE HEATING
AND VENTILATING.
Superior Hot Water Boilers.
JOHN A. SCOLLAY,
74 & 76 Myrtle Ave., Brooklyn, N.Y.
☞ Send for Catalogue.



GREEN-HOUSE
HEATING,
MYERS & CO.
1518 & 1520 S. 9th St.,
PHILADELPHIA.
Send for catalogue and price list.

STANDARD FLOWER POTS.
Price List.

2 -inch,	Per 1000 $3.25	7-inch,	Per 100 $ 3.50
2¼-inch,	" 3.50	8-inch,	" 5.00
2½-inch,	" 4.00	9-inch,	" 7.50
3 -inch,	" 5.00	10-inch,	" 10.00
3½-inch,	" 7.25	11-inch,	" 15.00
4 -inch,	" 9.00	12-inch,	" 20.00
5 -inch,	" 13.80	14-inch,	" 40.00
6 -inch,	" 22.00	16-inch,	" 75.00

Terms cash, f o b. Address
HILFINGER BROS. POTTERY, Fort Edward, N. Y.
August Rolker & Sons, 136 & 138 W 24th St., New York City, Agents for New York and vicinity

D. H. ROBERTS,
159 & 161 South Fifth Ave., New York.
NATURAL GAS MADE GLASS,
For Rose Houses, Conservatories, etc., etc.

H. M. HOOKER COMPANY,
57 and 59 W. Randolph Street, CHICAGO,
NATURAL GAS MADE GLASS
FOR GREENHOUSES.
Write for latest prices.

"Standard" Flower Pots.
As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address
The Whilldin Potterv Company,
BRANCH WAREHOUSES: 713, 715, 717 & 719 Wharton St., Philadelphia, Pa.
Randolph Ave. and Union St., Jersey City, N. J.
Jackson Ave. and Pearson St., Long Island City, L. I.

STANDARD FLOWER POTS
Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.
A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.
We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.
Send for price list and samples and we know you will give us an order.
SYRACUSE POTTERY CO. OFFICE: 403 North Salina Street, SYRACUSE, N. Y.

STANDARD FLOWER POTS.
OLD RELIABLE MAKE OF
ELVERSON, SHERWOOD & BARKER.
Write for Catalogue and Price List.
PITTSBURGH CLAY MFG. CO. New Brighton, Pa.

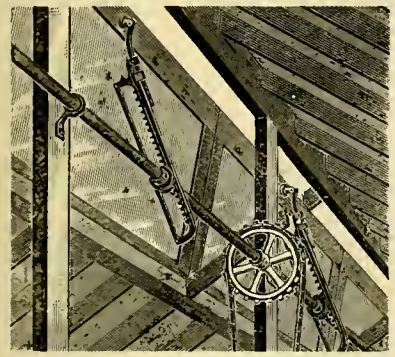
STANDARD FLOWER POTS
Our new **Pottery,** new **Machinery,** the very **best Clay** in the **Country,** and our new **Patent Kilns,** all combined, make the **best Standard Pot in the market.** Send for price list.
PARMENTER MF'G COMPANY,
GEORGE MESSINGER, Manager. East Brookfield, Mass.

FRENCH GLASS For CONSERVATORIES, ROSE HOUSES, Etc. Etc.
VANHORNE, GRIFFEN & CO.,
Importers of PLATE and WINDOW GLASS. Manufacturers of BENT GLASS and FRENCH MIRRORS.
131-133-135-137 FRANKLIN STREET, NEW YORK.
Note—Imported Glass is used in the best grade of Greenhouse building

ESTABLISHED 1866.
FLORISTS WIRE DESIGNS
MANUFACTURED BY
N. STEFFENS
335 EAST 21ST ST. NEW YORK.

SEE HERE
BROTHER
FLORIST!

Aren't you tired going through your houses two or three times a day year after year and lifting your ventilating sash one at a time and propping them up with sticks or pots, with a chance of having sash blown off and broken glass to pay for? If you are



We have got just the thing you need, the **NEWEST** and **BEST** thing out. "The New Departure" for **about half** the cost of the old style. Send for Descriptive Catalogue to

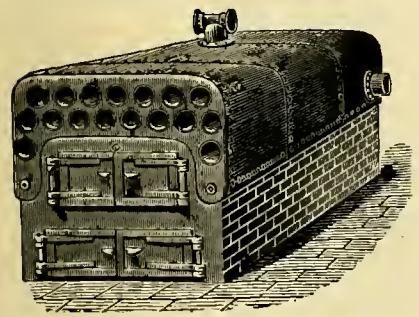
J. D. CARMODY, Evansville, Ind.

ESTABLISHED 1854.

DEVINE'S BOILER WORKS.

THE FLAT TOP TYPE

Wrought Iron Hot Water Boilers



Capacity from 350 to 10,000 feet of four-inch pipe
SEND FOR NEW LIST.

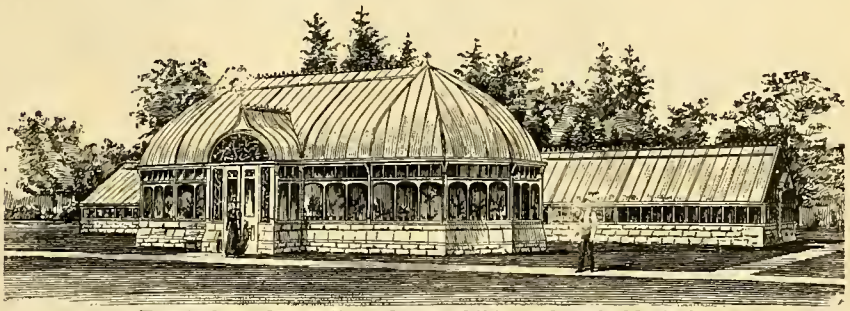
FRANK DAN BLISH, Att'y,
OFFICE, 189 STATE STREET.
WORKS, 55th & WALLACE STREETS.
CHICAGO.

KROESCHELL BROS.
IMPROVED
Greenhouse * Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

LORD & BURNHAM CO.
Horticultural Architects and Builders,
STEAM AND HOT WATER HEATING ENGINEERS.
☞ Plans and estimates furnished on application.



Front view of a portion of our exhibit at the World's Fair.
. . . SEND FOUR CENTS POSTAGE FOR ILLUSTRATED CATALOGUE. . . .
LORD & BURNHAM CO., Irvington-on-Hudson, N. Y.

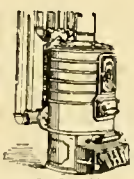
ROYAL HEATERS

The right kind of Boiler in a greenhouse means success with flowers.

HART & CROUSE,
UTICA, N. Y.

Gurney

HOT WATER
HEATERS AND RADIATORS
FOR HEATING
Dwellings, Public Buildings, Etc.
BY
HOT WATER CIRCULATION.



GURNEY.

Best for Greenhouses.

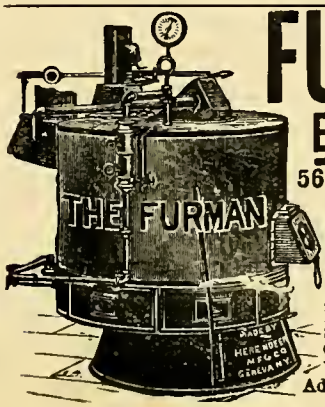
Our illustrated book "How best to Heat our Homes" gives the reason why. We send it free.

T E BEST IS CHEAPEST.

Gurney Hot Water Heater Co.
HEAD OFFICE:
163 Franklin St., Boston, Mass.
BRANCH OFFICE:
59 Wabash Ave., Chicago, Ill.
SELLING AGENCIES:
Johnson & Co., 71 John St., New York.
I. C. F. Trachsel, 236 Arch St, Philadelphia.



DOUBLE CROWN.



FURMAN BOILERS
Economical — Substantial — Safe.
56 STYLES AND SIZES—BURNS HARD OR SOFT COAL.
Modern Hot-Water Heating

These Boilers have a high reputation for Staunchness, Durability and Safety, and are GREAT COAL SAVERS. Minimum Friction and Maximum Velocity only obtained by VERTICAL WATER CIRCULATION. Send for new 150-page book giving full particulars and a great deal of valuable information on modern Heating and Ventilation with plans and tables for correct hot-water work. Mailed free.
Address **HERENDEEN MFG. CO., 26 Vine Street, GENEVA, N. Y.**

Index to Advertisers.

Abel C C & Co.....403
Adv. Rates, etc 400
Baller F A 404
Barnard W W & Co339 403
Bayersdorfer H & Co ..406
Bay State Hdw Co.....408
Berger H H & Co.....403
Bonsall Jos E & Son ..401
Boston Letter Co 407
Brabant Aug F.....406
Brackenridge & Co.....405
Brague L B.....339
Brand & Wichers.....405
Brauer & Richter.... 405
Brown & Canfield.. ...404
Burkl Fred.. 405
Burns & Raynor.....401
Burrow J G.....404
Burton John..... 404
Carman R W.... 407
Carmody J D..... 411
Chappel Harry.....405
Chandlee Geo H.....406
Cook W C & Co. 405
Corbrey & McKellar...409
Dailledouze Bros 405
Deamud J B & Co.....400
De Lamater Iron Wks.409
Devine's Boiler Wks...411
Dillon J L.....404
Dreer H A... 405
Edwards S & Son.....405
Elliott W H.....400
Ellison Wm.... 400
Ely Z De Forest & Co..403
Felheim Lyman.....408
Felthousen J E.....405
Forstermann L. 405
Gardening Co The.....407
Gibson J C.....404
Goodyear Rubber Store 412
Graham Hugh.. 405
Griffith N S.....403
Gurney Heater Co 411
Hall Ass'n.....407
Hammond Benj.....409
Hancock Geo 404
Hart James.....401
Hart Michael A.....401
Hart & Crouse.....411
Hartford H E.....339
Herendeen Mfg Co.....411
Herr Albert M.....404
Hews A H & Co.....410
Hilfinger Bros.....410
Hill E G & Co.....406
Hippard E.....409
Hitchings & Co.....412
Hooker H M Co 410
Horan Edw C.....401
Huebner H.... 405
Hulsebosch Bros 403
Hunt E H..... 401
Hunt M A.....404 406
Hunter Frank D.....401
Huntington Seed Co...407
Jennings E B.....403
Joosten C H.....406
Kaufmann Ernst & Co.407
Kelsey Harlan P.....403
Kennicott Bros Co.....401
Knopff Oscar & Co.....402
Kroeschell Bros 411
Kuehn C A.....400
Kuhl Geo A. 404
La Roche & Stahl.....400
Lockland Lumber Co...409
Long Dan'l B.....400
Lonsdale Edwin....404 405
Lord & Burnham Co...411
McCartby N F & Co....401
McFarland J H.....409
McFarland J H Co.....406
Manz J & Co.....409
Marschuetz & Co.....406
Meyer John C & Co ...409
Michel Plant & Bulb Co 403
Millang Bros.....401
Moffatt G J.....403
Moninger Jno C ..412
Murdoch A M & J B...403
Murray S..... 339
Myers & Co.....410
Niles Centre Floral Co.401
Ouwerkerk P.....406
Pabst Theo & Co.....402
Parmenter Mfg Co.....410
Pennock C J.....404
Pennock Sam'l S.....400
Pierson F R Co.....339 400
Pittsburg Clay Mfg Co.410
Povall E T 405
Powell W S & Co.....406
Quaker City Mach Co..409
Randall A L 401
Reed Glass Co.....408
Reimschneider Ernst..403
Reinberg Bros.....401
Roberts D H.....410
Roehrs Theo.....401
Rolker A & Sons.....407
Sander & Co 405
Scollay John A. 410
Scott Alex.....404
Sheridan W F.....401
Sherwood Hall Nur Co.403
Siebrecht & Wadley....405
Situations. wants.....398
Smith Nathan & Son...403
Steffens N.....410
Streby S O 405
Struck J N & Bro.....409
Sunderbruch H L.....409
Sunset Seed & Plant Co402
Sutherland Geo A 401
Swayne Edward.....404
Syracuse Pottery Co ..410
Tricker Wm.....404
Van Horne Griffen & Co 410
Vaughan J C.....398 403
Watson G C.....403
Wenthered's Sons T W.412
Weeber & Don.....403
Welch Bros.....401
Whilldin Pot Co 410
Whitton Stephen.....403
Wight W P.....412
Wittbold George.....404
Wolf E E 409
Wood Bros.....405
Woodruff W B.....409
Young John.....401
Young Thos Jr.....400

WHEN SENDING us newspapers containing items you wish us to note please do not fail to distinctly mark the item so it can be easily found, as we can not spare the time to hunt through the mass of papers sent us for unmarked items.

WHEN writing our advertisers please use one of your printed business letter heads or enclose your business card.

YOU CAN never invest $2 to better advantage than in a copy of our trade directory and reference book.

CLEAR CYPRESS SASH BARS

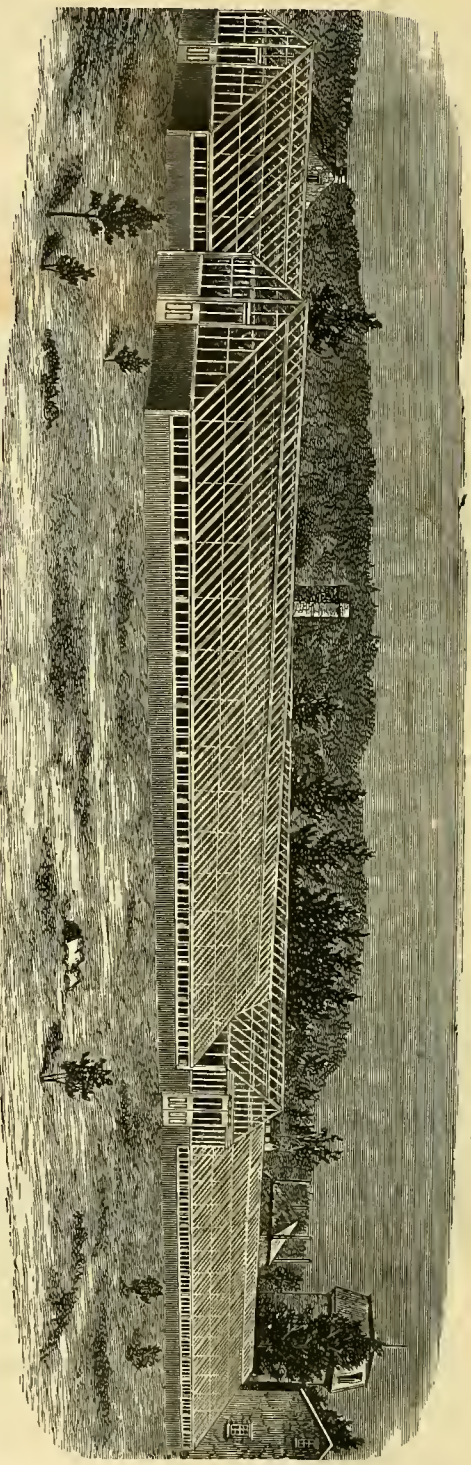
CYPRESS GREEN HOUSE MATERIAL

HOT BED AND VENTILATING SASH

JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

GoodellHH Mass Agri Col 15Dec93

HITCHINGS & CO.
ESTABLISHED 1844.
GREENHOUSE HEATING AND VENTILATING,
HORTICULTURAL ARCHITECTURE AND BUILDING.



COMMERCIAL ROSE AND GREENHOUSES, CONSERVATORIES, PALM HOUSES, ETC., CONSTRUCTED WITH POSTS, RAFTERS, PURLINS, GUTTERS, SILLS, COLUMNS AND BRACKETS, ALL OF IRON; AND GLAZING BARS, VENTILATING SASH AND SIDING OF WOOD. ERECTED COMPLETE, OR THE STRUCTURAL IRON WORK SHIPPED READY FOR ERECTION WITH PLANS, DETAILS AND FULL INSTRUCTIONS TO ENABLE LOCAL MECHANICS TO COMPLETE THE SAME. ——) IRON BENCH FRAMES FOR SLATE OR WOOD TOPS. (——

SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUES.

HITCHINGS & CO., 233 Mercer Street, NEW YORK.

THOS. W. WEATHERED'S SONS,
INCORPORATED.
Horticultural Architects and Hot Water Engineers
Send for Catalogue, enclosing 4 cents in stamps.
No. 244 Canal St., NEW YORK CITY.

THE PERFECT DRAINAGE
BENCH TILE
For circulars, etc., address
W. P. Wight, Upland Green Houses,
Send your business card. MADISON, N. J.

FLORISTS' HOSE,
Made by E. W. Holt, member of the Society of American Florists.
Goodyear Rubber Store,
2 W. 14TH ST. NEW YORK.

Mention the American Florist when writing to advertisers on this page.

Mention the American Florist when writing to advertisers on this page.

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. IX. **CHICAGO AND NEW YORK, DECEMBER 7, 1893.** **No. 288**

THE AMERICAN FLORIST

Copyright 1893, by American Florist Company. Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.
322 Dearborn Street, Chicago.

Subscription, $1.00 a year. To Europe, $2.00.

Address all communications to

AMERICAN FLORIST COMPANY,
P. O. Drawer 164, CHICAGO.

Eastern Office: 67 Bromfield St., Boston.

SOCIETY OF AMERICAN FLORISTS.

WM. R. SMITH Washington, D. C., president; PROF. WM. TRELEASE, St. Louis, Mo., vice-president; WM. J. STEWART, 67 Bromfield St. Boston, Mass, secretary; M. A. HUNT, Terre Haute, Ind., treasurer.

The new officers, to be installed Jan. 1, 1894, are: J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; secretary and treasurer the same as for 1893. The next annual meeting will be held at Atlantic City, N. J., August, 1894.

CONTENTS.

Miscellaneous seasonable hints 413
Roses—Rose notes 414
Caruations—Carnation notes 414
—Chester County Carnation Society 415
Table decorations (2 illus) 415
Chrysanthemums—Notes 416
Toronto 416
Table decorations (2 illus) 417
Denver 418
St. Paul, Minn 418
Table decoration (illus) 419
Philadelphia 419
New York 419
Boston 420
Cincinnati 420
Chicago 420
Catalogues received 422
News notes 424
Buffalo 426
St. Louis 428
Baltimore 430

SAVANNAH, GA.—A. C. Oelschig held his second chrysanthemum show last month for the benefit of a local charity. It was a great success artistically and netted $500. Mr. Oelschig added considerable glass last summer, including a palm house for specimen plants, a fern house and an addition to two rose houses 60x40. Business was dull all summer, but is now improving.

PORTLAND, ME.—Jos. A. Dirwanger's greenhouses are a favorite resort of the flower-loving people of Portland who admire rare varieties and well grown specimens. Adiantum Farleyense is seen here at its best, and there is always a good assortment of orchids in flower. One house at present is brilliant with tuberous begonias, Chinese primroses, ericas and flowering anthuriums.

DO YOU WANT a list of the leading park superintendents of America? You will find such a list in our trade directory and reference book.

Miscellaneous Seasonable Hints.

As fast as your mums are thrown out you will have space for other crops. An important one is the Bermuda lilies, which may have been hurried in to the greenhouse. Now you will have time to give them proper care. I allude to the Easter crop. If you did as I suggested—plant the bulbs two inches below the rim of the pot, allowing an inch or so of compost to be added after they have made a growth of a few inches—there is no better time to do it than now. As I have before stated the roots which the lilies are bound to send out above the surface will find a great help in this top dressing. After it is done the science of watering comes in, as the new surface soil without roots taking anything from it for a few weeks, will always appear more moist than the solid ball of the plant really is. An examination of one or two plants in a batch will reveal the true state of affairs.

I would like here to refer to a little controversy which has lately taken place in your columns about watering. Expert waterers are jewels; like poets, they are born not made. Few plants except aquatics want to be all the time in the same condition of moisture at the roots. When a plant does not dry out in proper time there is something wrong, but there is a great difference between a plant so dry at the root that its leaves and branches wilt, and one that has just absorbed the moisture from the soil and is again ready for another supply. Perhaps a hundred different directions could properly be given for the many different plants that are cultivated. But one broad rule will stand for 99% of all the plants usually found in the commercial greenhouse, viz.: let a plant get slightly on the dry side and then give it a good drink and then let it go till it needs it again; and this applies to either bench or pot, and what's the good of drawing an analogy between the vegetable and animal kingdom? They more likely both started from the same mysterious germs, but as we view them and know them they are existing under very widely departed conditions.

There is no plant more troubled with aphis than the longiflorum lilies and when they are about one foot high is the worst time for them. The greenfly gets away down in the heart of them and continual smoking scarcely dislodges these little pests after they have once got a foothold. Before you see any greenfly at all give them a syringing of weak tobacco water. It will go far towards preventing a crop of aphis from troubling your Easter crop.

Don't stand your imported azaleas too close together; give them room and it is none too early to look out for that premature growth which if allowed to grow will almost entirely spoil your crop of flowers. Have them carefully pinched off if you want to sell the plants this coming winter and spring. I believe the close atmosphere which they get in the hold of a vessel and then the sudden change to day light and moisture is the cause of this premature growth. Some varieties have long strong growth extending several inches beyond the shoots that bear flowers; these are usually blind; cut them out; they only spoil the symmetry of the plant.

If you imported any rhododendrons treat them the same as the azaleas and for the present keep as cool as possible. They do not sell as well as azaleas, neither do they force as well. Don't try to get them in by Easter; they will pay all right in May and June if you have any demand for such stuff.

The new crop of lily of the valley is difficult to get in by Christmas, but a paying percentage can be forced for that date. They want a strong bottom heat (85° to 95°) and plenty of water (twice a day) at a temperature of 80°. If possible have them in the bed or boxes so you can water the roots without wetting the flowers, which is a great injury to them. Put in the first crop on December 1, and continue every few days as your demand requires. Large growers of valley depend on dormant roots until after New Year's but the new pips can be successfully forced for January 1, and on.

Those who potted some Dutch hyacinths as soon as received in early September will now be able to bring in a few and if given a strong heat can have them in flower by the Holidays. It is not desirable to force many, for they are not in great demand until late in the season. Give them a night temperature of 65° to 70° and plenty of shade.

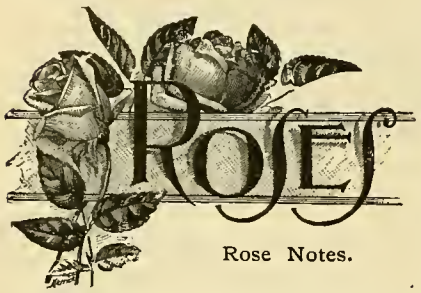
A few years ago we thought it absolutely necessary to have tulips at Christmas, but of late we can do without them. If you do want them bring in only the Duc Van Thols, scarlet, yellow and pink. Give them a temperature of 70° at night with plenty of water and cover at all times with a heavy shading; cheese cloth is about right. The shading is to produce a long stem. Bring the first lot in about December 1, and they will be well in flower by Christmas.

Pelargoniums that were propagated in August and September and the old plants that were cut down, shaken out and started growing again will now have made a good growth and if you want to increase your stock take off the ends of the strong leading shoots. They root very easily in the sand now and there is plenty of time for them to make good salable plants by May and June. It is not desirable to propagate them much later than this date.

About the 15th of this month I bring in to force the following tulips: La Reine, Vermillion Brilliant and Chrysolora; and

Von Sion narcissus. They can with heat and shade be grown with good stems by the first week in January. WM. SCOTT.

Buffalo, December 4.



Rose Notes.

Now that the great rush of the chrysanthemum business is over growers will begin to think it is time to see about their roses. Many, I fear, have very much neglected them of late on account of the all-absorbing topic of the season—chrysanthemums. Where such has been the case it will be unfortunate for them at Christmas, I am afraid. At any rate now is the time to put all the time and energy possible into the growing of roses and other stock from which cut flowers are to be harvested for the coming winter.

Where old stock has been carried over every possible means should now be used to help it along, but, let me put in a word of caution here, not to over-do it. The great trouble with many of us is we think if a little is good a good deal is better, but in this case the rule does not apply at all. Better use a small quantity and often than a large quantity and over-do it at once. Where good, clean sheep manure can be procured there is nothing better as a fertilizer for old plants than a dressing of one-half to three-quarters of an inch of this spread evenly over the surface. Where such cannot be procured the next best thing is thoroughly well decomposed cow manure used in about the same proportion, but as this is not as stimulating and does not contain the same proportion of ammonia as the sheep manure it would be well to use a light dressing of fine, pure ground bone first before applying the manure. This helps to draw the roots to the surface where they can be fed with liquid manure occasionally and very best results obtained by such means. Nitrate of soda also is considered valuable in such cases. The best means I have ever yet found for applying nitrate of soda is to take a very fine, dry soil, screen through one-quarter inch mesh five parts to one part of nitrate of soda; or in other words take about five shovelfuls of fine soil and a small shovelful of nitrate of soda. This should be enough to cover five or six hundred square feet after being thoroughly mixed up together; the watering gradually dissolves the nitrate of soda and the roots get the benefit of it without the possibility of giving them too much. The trouble with giving them too much is that it is apt to burn the roots and do more injury than good. Such a dressing as above can be applied every four weeks with considerable benefit if the plants are in vigorous healthy growing condition. Some use it as a liquid but I prefer the above method as being more sure of getting it in lighter doses, so to speak, or, in other words, a small portion for each meal rather than give an over quantity at one time.

Young plants, or rather houses replanted with young stock this year would be better without the nitrate of soda until the days begin to lengthen out quite considerably—say February. I have never yet found in my experience that too much stimulant is of any benefit to young plants till they have fairly well filled the soil in which they are planted with roots. It oft-times does more harm than good, and if the plants have a good sound packed soil when planted they certainly do not need it until that time.

Many complaints reach me through the mail and otherwise that the stock is generally below par this season. I have taken considerable pains to find out what might be the cause and found that in very many cases it occurs through running too high a temperature. It may appear to the general reader egotistical in me too keep "harping on the same string" in reference to temperature, but there is no such thing as getting really fine plants and flowers if the temperatures are run too high. It would be just as reasonable to expect a horse to travel at a high rate of speed continuously without rest and maintain his condition and be in good shape all the time as it is to expect a rose run at a high temperature to keep producing fine flowers. The animal and vegetable kingdom are very closely allied in this respect and if you want to get the best results you must give the very best treatment consistent with their requirements to obtain it in either case. A horse that is driven at a high rate of speed is cared for very judiciously and fed in small portions, with all the other paraphernalia of dressing, cleaning, etc. just as carefully attended to, and if you want the best results from plants producing flowers you must follow the same rule.

All the above-named fertilizers and several others which could be enumerated also and are known to the general growers can be used to advantage, but care must be used in their application. Nitrate of soda is one of the stimulants that more than ordinary care must be taken in using, hence my reason for emphasizing the above.

Keep all dead leaves, weeds and rubbish cleaned off the plants regularly; water very carefully when dry only. At this season of the year oft-times the syringing of the foliage will be almost all the plants require for five days out of six; and unless liberal syringings are applied on all favorable opportunities red spider and other insects will be sure to obtain a strong foothold; keep all such insects checked on first indications of the same. With reference to green fly another season's experience warrants us in emphasizing our statement that the tobacco juice applied as vapor from steam is by far the best means up to date of destroying insects on plants that are producing flowers. After a three year's trial of this material we have never found a flower injured from its application. Many people run away with the idea that there is considerable complication in arranging for such applications; this is an error. The requirements are simply a steam boiler large enough to generate sufficient steam to fill a house or houses with a body of steam quickly; this is really the heart of the whole process. JOHN N. MAY.

Summit, N. J.

WHEN SENDING us newspapers containing items you wish us to note please do not fail to distinctly mark the item so it can be easily found, as we can not spare the time to hunt through the mass of papers sent us for unmarked items.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.



Carnation Notes.

Cuttings:—"Well begun is half done" I was taught while going to school. Unless my ideas are all away this applies to the propagation of carnation cuttings as much as to anything else. One would not think of breeding from a deformed or sickly horse or cow, much less should we think of propagating from a deformed or sickly carnation plant, for in the first case we can have one healthy parent if we wish and yet we would not make the attempt. In the carnation's case there is only one parent to work from, and if that parent is not in the best of health and vigor how can one expect the progeny to be healthy?

Promiscuous propagation is one of the causes, and one of the principal causes, of carnations deteriorating after a few years. Unless some care is used in pulling the cuttings diseased and unsatisfactory plants will become more plentiful every year and it will be only a few years until they will be in such a large percentage that the variety will be declared run out and worthless. The other cause for the running out of varieties is the continual propagation from plants that are grown for cut flowers, but of this I will have something to say later on; these remarks now apply to the cuttings as they are usually taken from blooming plants.

Never put an apprentice to pulling cuttings; the best men on the place are none too good, and should be instructed not to take any from a plant that shows the least sign of weakness or disease. There is a great deal more in careful selection than most of us are willing to acknowledge, and if we follow it up closely year after year we can improve, instead of ruin, a variety even if we are propagating from blooming plants.

It should not be necessary for us to be continually crying for new varieties to take the place of the old worn out ones. When we get a good one we should endeavor to improve, and not allow it to run out almost before we have learned to grow it. I can recall some of the newer ones that were propagated, every little branch and sprig from healthy and unhealthy plants alike, and what was the result? Almost worthless the first season they were put on the market, a disappointment to those who bought and a very poor card for those who sold.

My experience has been that the side shoots on the flowering stems make the best cuttings, and that it will pay where you have enough of a variety to do it to let the flower open first before pulling the cuttings, and if it is not strictly a first-class flower do not take the cuttings, as they will not be strictly first-class either. Where you do not have enough of a variety to follow this plan, almost as good results can be had by carefully selecting the cuttings from the best, healthiest and most free blooming plants.

It would be suicide for me to propagate now for my next season's plants, but in some localities and soils December struck cuttings are the best. These early cuttings should be especially carefully selected as they will have from three to four months indoor culture.

A. M. HERR.



TABLE DECORATION OF CATTLEYAS AND FARLEYENSE FERNS AT CHICAGO. ARRANGED BY P. J. HAUSWIRTH.



ORCHID TABLE DECORATION AT CHICAGO SHOW. ARRANGED O. J. FRIEDMAN.

Chester County Carnation Society.

The December meeting of this society met at their room Saturday, December 2, with an unusually large attendance. The question of disposition of the gold medal offered last year and not awarded was again introduced and elicited considerable discussion as to the restrictions to be imposed. It was finally determined to offer it for best six blooms not introduced before 1892. Last year the offer was for six blooms of a variety never offered for sale. It will be remembered that only three varieties competed at Pittsburg last year, and in the opinion of the committee none of these were considered of sufficient merit to warrant an award. The committee will be composed as last year of three persons, one to be appointed by the Chester County Society, one by the American Carnation Society, and these two appoint the third. This society is particularly desirous that there shall be a strong competition, and the offer is open to all growers whether members of either society or not.

Prices on cut flowers were reported as in favorable condition for the grower, the secretary calling attention to the importance of carefully grading the flowers. The subject of disbudding for profit was presented. C. J. Pennock thought it depended on the variety. In Tidal Wave, Buttercup, Robt. Craig, etc. it was better to take off the terminal bud and leave three or four side buds to form a spray. With Portia and others of similar growth it was better to take off the side buds. Secretary Shelmire had found that the expediency depended on the particular stem. He had found it varied in the same variety; some stems of Buttercup, for instance, would make most profit by leaving the terminal, which was always sure to make a good bloom. Mr. Walton

doubted the profit to small growers, because it was not the custom of the commission men to give each grower his individual sales, but averaged the total sales of a week among the various growers. President Ladley thought the time was past for selling carnations simply in bulk, but that they should be classified, and still better to sell them by names and thereby create a better market for the better kinds.

The secretary read a letter from Mr. Darlington, member from Doylestown, with valuable suggestions for better exhibit of flowers at the various flower shows. Mr. Phillips spoke of the success of the exhibition held by the society at West Chester last winter, and suggested the advisability of another, and a committee was appointed to look up the matter and report at the January meeting.

The exhibit of seedling blooms was unusually large, and a number of exceptionally fine flowers were shown. Geo. Lowe showed a clear yellow with others, McGowan X Tidal Wave. Wm. Swayne showed a fine one, style of Daybreak; I. Passmore showed several, one a fine deep pink. L. Thompson showed one of last year's, very attractive, deeply fringed, a clear pink. Jos. Phillips showed several in type of Tidal Wave. E. Walton had several, one extra good one of Chester Pride type. E. Swayne showed seedlings for Wm. Nicholson, Nicholson and Ada Byron, and some whites by number from Sewall Fisher. Secretary Shelmire showed several seedlings of Cæsar stock, also Mrs. Stanley and Buttercup. C. J. Pennock showed three or four, one flame color, full, fringed and of attractive style.

C. J.



Chrysanthemum Notes.

Surely there is no flower grown where there is such a difference of opinion as to respective merits and individual excellence. Some of them have such "swelled heads" that it is little wonder their growers become inflated also. Varieties like Ivory, that combine so many good qualities are the exception. More are good only for some special purpose. According to my judgment, any color and shape, double or single, is permissible in chrysanthemums so long as there is some special individuality? Mme. Hyslop, the tiniest of them all, but half an inch in diameter, is a novelty as are Medusa's tangled threads! The dragon varieties always attract attention as curiosities for exhibition.

One of the prettiest placque arrangements I know is well grown Molly Bawn, with adiantums, *bedded* (not cut sprays that soon wilt and mar the general effect). The flower is grace and purity itself, and the adiantums a natural setting. Small crotons, grevillea (silk oak), cyperus, etc., used this way with bronze and gold chrysanthemums are a great addition in made-up work, where they can be used to advantage as in baskets and the like. What a bonanza the chrysanthemum would be if Easter was in November!

I observe in notes reviewing varieties exhibited at Chicago "Robt. Bottomley should be called Lady Trevor Lawrence." If I am not at fault R. B. has precedence by one season. As I recollect, the variety was imported by two English firms, one getting ahead of the other in bringing it before the public. Several firms have done the same with us too, but it is less likely to occur for the reason that we do not need to go to Japan for novelties when our own productions are so notable and our climate so well adapted (under glass the American grower has it all his own way).

I regard King's Daughter as distinct from Mrs. Langtry. A deeper flower, less informal arrangement, and does not shed its petals like Langtry. It is rather odd that this sort holds out so well on the plants, and "going all to pieces" almost as soon as cut.

Aug. Swanson suits me as an exhibition flower, large, good shape, short jointed habit, with stiff stems, not "Daddy long legs" as are most of the incurved bronze leather colored sorts. For myself I like these so-called "indeterminate" shades in chrysanthemums and dress goods! I do not regard it necessarily a fault that a mum should show a center disc; often it but gives character to the flower, unless too pronounced; especially is this true of the incurves. Waban may be "flimsy" when poorly grown, otherwise satisfactory and a first-class exhibition bloom. Thos. Cartledge, although not any too easy to grow, is a splendid yellow bronze for exhibition. A good bloom is five or six inches deep, somewhat reflexed, while the incurved petals cover the center nicely.

American Flag is a fine exhibition sort, in the way of Viviand-Morel as to build, considerably later in bloom. Harn Ko is a curiosity in the way of a twisted incurve and a very distinct shade of silvery lilac or lavender. M. B. Spaulding is a very good yellow, reminds one somewhat of Golden Wedding. I find Golden Wedding easy to grow. Of what use though are words in chrysanthemum lore; she is able to stand on her own merits, her popularity is not on the wane, and her sway is sure and certain so long as November annually ushers in the Flower of the Gods! While the added novelties and superior culture will always interest connoisseurs.

GROVE P. RAWSON.

Toronto.

As I anticipated in my last notes concerning the late chrysanthemum show the Gardeners' and Florists' Association is now possessed of a bank balance $50 larger than before the show; this does not seem much to brag of, but all the same it is highly gratifying to those who have been doing the work especially, and also to all the members of the Association. There is every reason to believe too that the chrysanthemum show may now with proper management become one of the fashionable events of the season in the city, some of the upper ten having promised more substantial support next year. Several valuable hints have also been made by some of the daily papers, which if taken advantage of will materially aid in swelling the receipts. The beauty and magnificence of this year's show too must certainly advertise the next one to a large extent.

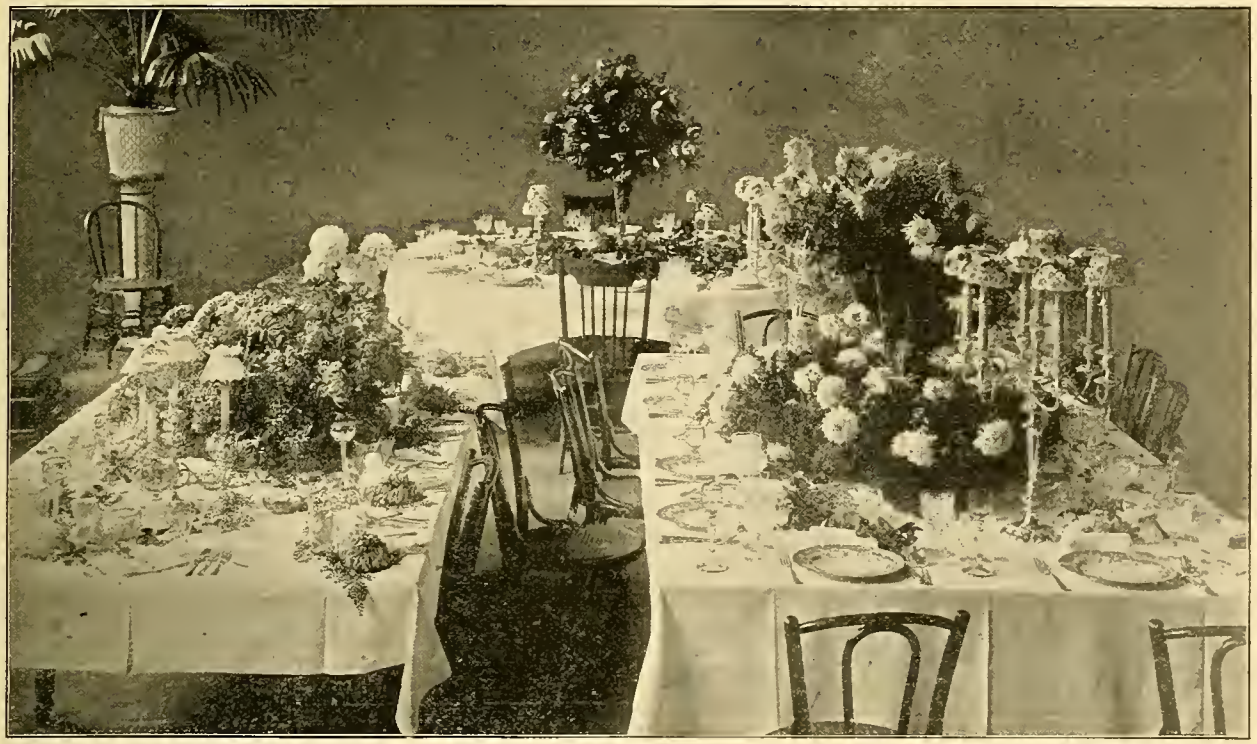
Now for the details which I promised in my last. To begin with plants, which were, if taken altogether, quite as good as last year's in spite of the lateness of the season. The $25 prize given by Sir C. Gzowski for 12 specimen distinct varieties was taken by Mr. A. Macpherson, gardener to Col. Sweny, whose plants though not quite so good as last year were very fine; Mr. Geo. Hollis came second with 12 smaller but very nicely grown plants; Mrs. Palmer third. For 4 whites Geo. Hollis first, Mrs. Palmer second and R. Gore third; 4 pinks, Central Prison (Mr. W. Houston) first, R. Gore second and Reservoir Park (Geo. Reeves) third; 4 yellow, Col. Sweny first, Mrs. Palmer second and R. Gore third; 4 any other color, Mrs. Palmer first, Central Prison second and R. Gore third. In specimen plants of each of the above colors the firsts were taken by R. Gore, Reservoir Park, Col. Sweny and R. Mearns. The cup given by Messrs. John Davis & Sons for the best specimen any variety brought 11 entries and was captured by Mr. A. Macpherson with a magnificent W. H. Lincoln. Both firsts for standards were taken by Mr. R. Gore. In the section for 25 distinct varieties in 6-inch pots there was great competition and Messrs. Spears & Muston came in first with a very fine lot, good blooms, bushy and well leaved down to the pot; Messrs. Manton Bros. were close behind. The cup for 25 distinct varieties, single stem, single flower, was taken by Mr. A. J. Watkins of the Horticultural gardens; his plants had been held back for several weeks but came in ahead after all; Mr. R. Mearns was second. There were 8 entries for the group of chrysanthemums and foliage plants 15x6 feet and some very fine banks were put up. Messrs. Manton Bros. took the cup with a beautiful arrangement, Horticultural Gardens second and W. J. Laing, not quite up to his usual taste, third.

In miscellaneous plants Messrs. Manton Bros. took the cup for palms in 10-inch pots and first for palms in 8-inch pots; Spears & Muston first for a beautiful lot of 50 ferns in 3-inch pots. A. Gilchrist second with a large variety. For large ferns, adiantums and orchids John Chambers, Exhibition Park, was away ahead. Mr. Geo. Hollis had a lot of cyclamen hard to beat and took first prize. Mr. R. Mearns was first with specimen callas, fine well grown plants.

The exhibit of cut bloom was so large, varied and fine that one is a little nervous about endeavoring to describe it, though of course one can not let it go by without some remarks. Mr. J. H. Dunlop took the Lieutenant Governor's cup for the best 25 distinct varieties with a superb lot, among which Golden Wedding, Minnie Wanamaker and Good Gracious were particularly conspicuous; he also took first for the 12 distinct varieties including Mrs. Chas. Duhme, Mrs. Irving Clarke, Elmer D. Smith; also for specimen yellow (Golden Wedding), Pitcher & Manda's medal for 5 varieties new of 1893, Nathan Smith & Sons's prize for 12 varieties of 1893, and firsts for vases of 12 yellow (Golden Wedding again), 12 white (Minnie Wanamaker), 12 pink (President W. R. Smith), and 12 any other color (Harry May).

Mr. R. Mearns also had a magnificent lot of blooms which took second for the 25 and 12, first for specimen pink (Good Gracious, immense!), first for 12 Japanese and 12 Chinese and second for cut sprays.

Messrs. Nathan Smith & Son (whose blooms had only just been unpacked) came in third for the 25 and 12 and first for the 6; noticeable among their blooms were F. Thompson, Ada H. Le Roy, Mrs. F. L. Ames, Maud Dean, M. B. Spaulding, C. B. Whitnall, J. S. Mathews, Mrs. A. J. Drexel, H. Balsley, Sec'y Farson, Viviand-Morel, etc.



BY J M GASSER. BY C. A SAMUELSON. BY AUG S. SWANSON.

TABLE DECORATIONS AT THE CHICAGO SHOW.



TABLE DECORATION OF ORCHIDS AND ADIANTUMS AT CHICAGO. ARRANGED BY JOSEPH CURRAN.

Wm. Scott, of Buffalo, and E. Suder, of Toledo, also showed some fine blooms in the 25, 12 and 6, but did not quite get there; Suder, however, took first for specimen white (The Queen) and specimen any other color (seedling 101, which was awarded a certificate of merit and took the cup for the best seedling); Scott also took third for vase of 12 blooms white, second for pink, third for yellow and second for any other color. Mr. A. Gilchrist captured first for 12 cut sprays with a beautiful lot against keen competition. Other exhibitors taking prizes were Horticultural Gardens, Mrs. Palmer, Grainger Bros., Manton Bros., R. Gore.

The class for seedlings turned out to be a great feature. In my notes of last week I gave those which had been awarded certificates of merit, but besides these were others worthy of special mention. From Nathan Smith & Son were Iora (in the way of Good Gracious), Durango (yellow) and Laredo (pink). From Pitcher & Manda were Geo. A. Bellman (yellow) and a very pretty lot of anemone flowered blooms. From H. Tong Massasauga Chief, a large deep crimson but a little weak in the stem.

The exhibit of floral designs was very large and fine (in its way). W. J. Laing was first for the cross (chrysanthemums, 30 inches), Manton Bros. second and W. Scott third; for the wreath (chrysanthemums, 20 inches), A. Westwood was first, Scott second and Tidy third. There were three decorated mantels and I think the judge must have found it hard to decide which was the best; they seemed to me to be all much of a muchness, but the general opinion of the public seemed to be that the third should have been first. Messrs. Grainger Bros. were awarded first, W. J. Laing second and Manton Bros. third.

The show of carnations was magnificent and hard to beat. Daybreak was in the ascendancy, putting all the other pinks into the cold shades of unpopularity. The principal prizes were taken by Messrs. J. H. Dunlop, H. Dale (Brampton), and Spears & Muston, the latter getting the cup for the best 100 blooms. W. Scott took first for red with some as fine Portia as ever was seen. Other exhibitors taking smaller prizes were W. J. Laing, Manton Bros., A. Gilchrist. A

fine bunch of 100 blooms named "Adelaide Kresken" was shown by Mr. Peter Herb, of Mt. Healthy, O. This is a seedling of Mr. Herb's raising not yet in commerce. It is a pink in the way of Tidal Wave, but brighter, more sparkling and larger. It was awarded a certificate of merit.

Now I come to the last class, but the best of all—roses. Nothing could surpass them; they were simply glorious, and the first prize bunch of 50 (of which I send you photograph) put up by Mr. J. H. Dunlop could not be equalled I am sure in the world at this time of year; it was composed of American Beauty, Mme. Caroline Testout and Kaiserin Augusta Victoria. The second prize bunch of 50 put up by H. Dale was little behind the first in quality, but were not arranged quite so tastefully. For roses of specified sorts 6 blooms of each, Dunlop took 6 firsts, Dale 3 firsts and Spears & Muston 1 first. All, however, were really first class blooms and the superiority of one over the other in most cases could only be detected by experts. Toronto rose growers have now got such a name in the trade for the good quality of their bloom that it is almost superfluous to sound their praises in these notes.

Here endeth the fourth annual show of the Toronto Gardeners' and Florists' Association, and good as it was I have no doubt but that the fifth will be better.

Mr. F. G. Foster, of Hamilton, ably officiated as superintendent.

Messrs. Jas. McKenna and Joe Bennett, of Montreal, were there, also the genial Harry Bunyard, of Pitcher & Manda.

Special features of the show were Seedling No. 101, Oriana, Good Gracious, Golden Wedding, Eugene Dailledouze—and Great Scott.

Capt. W. F. Master, an honorary member of the Association, was presented with a gold headed cane by the members and highly appreciated the compliment.

Those who had a voice in the postponement of the show were amply vindicated by the crowds on Thanksgiving Day afternoon and evening.

A first class band is a necessity at a flower show. E.

Denver.

We are now through with the anxiety of our first show. Denverites cannot do things by halves and as a result we came out of our first show financially away ahead, and for glory we have the praise of every one of the 7,000 people who paid admission.

The show room, a large circular 138 feet in diameter, was full to overflowing. Plants occupied a large amount of the floor room, the entries for standards in 12-inch pots being an attraction to all. Mr. Beach had four splendid ones that easily led in the race. Mr. Beach says that Michigan boys never follow. In 12-inch bush plants another eastern raised man was successful, Mr. Adams, grower for C. R. Gallup. If Mr. Adams' products are to be taken for a standard surely Baltimore must require a very high standard for mums. Among the successful single cuts, Mr. John Berry, gardener for Senator Wolcott, had more than one. Not only is the Club grateful to Mr. Berry for the splendid specimens he exhibited but for the earnest work he did as a member of the committee of management, which consisted of Mr. Lewis, Mr. Thos. Chapman, Mr. John Berry and our president, Harrison Given.

We were pleased to have some eastern goods with us, notably from Nathan Smith & Son, J. C. Vaughan and E. G. Hill & Co.

The twelve cut blooms of Golden Wedding from Gallup deserve special mention, they were among the very most admired bunches; this variety is a favorite among us.

Probably closer competition was shown among the rose growers than elsewhere. Among the successful were Colfax Floral Co., with Beauties, La France and Mermets; Gallup with Woottons and Bridesmaids; Mauff with Brides and Belles.

Saturday was our great day both in attendance and interest. The table decorations were a great card. Mrs. C. R. Gallup was the favored one with a round table of Bridesmaid roses and asparagus. This table was very much admired, its beautiful simplicity being the charm. The table of white and yellow mums, by Mr. Albert Mauff followed closely and shared not a few of the praises. In mantel decorations the Mauff mantel was easily winner.

We were hurt in attendance very much by extreme cold Thursday and Friday and yet were blessed with pleasant days both before and after the show.

Among the many things the club is rejoicing over is the fact that we had Mr. Wood among us for four days. True he was a surprise to us, for the committee could not locate him at all when the train arrived, so he hunted us up when became up town. He however forgave us as no doubt he had to do many many times later. Not one kick is our report as to his judgments. We can never hope to be so so well pleased as to awards again until we can have him for a second time.

Snow and cold are new arrivals and are shortening up all cuts. Mums have held up in prices very well, so far $2 to $3 are the ruling prices for good cuts. Roses are unusually good this winter. The Bridesmaid is not a small attraction on the market. LYLE.

St. Paul, Minn.

I have noticed lately that the AMERICAN FLORIST has a correspondent from this part of the world; many of the florists here, as well as in Minneapolis, have been inquiring of each other, and stretching their imagination, trying to guess who the person is who styles himself "Felix." They have come to the conclusion that he must be a man outside our profession, and they now all beg that he will honor them with his name and address, as they are all willing and anxious to extend their help and give him needed information, as his letters of late have been so entirely contrary to facts and circumstances that to a casual observer acquainted with the profession here it seems as if "Felix" was taking a pleasure in misrepresentation. I will enumerate some of the points in his letters to which exception may be taken.

In his letter of October 19, he says:

"Some of the department stores here and in Minneapolis have 'flower days' selling at wholesale prices; it tends to dispose of the surplus while not materially affecting the regular retail trade."

How any honest person can say that it does not affect the regular trade to have the drygoods stores advertise broadcast that stock from the city greenhouses will be sold at prices like this for instance—roses from twenty-five to sixty cents, chrysanthemum plants ten cents each, or three for a quarter, or Dutch hyacinths in pots five cents each?

The second point to which exception is taken is where he states:

"Ten years ago two or three small greenhouses supplied the entire trade in cut flowers and plants; now there are a score or more, some of them like May's containing upwards of 100 000 square feet of glass. And still their capacity is taxed to the utmost."

The fact is there is no greenhouse establishment in this city which contains over 40,000 feet of glass, and most of them are considerably below this. Ten years ago there were, to my knowledge, at least fifteen different greenhouse establishments in the city of St. Paul. Of course they have done here as in other parts of this country; they have most of them increased their glass area, but it seems to me his letter is contradictory, when he first says the department stores are disposing of the surplus, and then tells us the houses are taxed to their utmost. As a fact I think we would all be better off if there was at least a third less glass.

Another item which many of the brethren have been inquiring about is who or what committee recommended that no chrysanthemum show be held. No one has been able to answer; they all say they don't know. They also take exception to some points in his letter of October 26, but as that is of less importance we will let it pass.

In the November 2, issue he states that

"A large department store in Minneapolis is offering roses for Monday at 25 cents per dozen. Surely these must have been cut in Chicago."

On the contrary, Minneapolis florists claim they were supplied from St. Paul.

The letter appearing in the FLORIST November 23 was fully as good as its predecessors. All the Minneapolis florists wish to be excused from following his advice in imitating the Mendenhall greenhouses in the construction of their own, as there are many faults in their construction, and they are too expensive for a commercial florist.

Some of us in St. Paul take exception to the statement that "mums were in greater demand than roses" at the recent Charity ball in this city. We did not find it so, the call was for roses first, violets second, and chrysanthemums were taken when nothing else suitable could be had. It is a fact that the chrysanthemum doesn't seem to be popular with the "swell crowd" for wearing or carrying, except on the street.

Another item is

"Two of the larger department stores engaged in a little rivalry recently, the one selling nice pot plants at 10 cents each or 3 for a quarter. The crowd was great and the mums were all gone before 9 o'clock a. m. As many went later purposely for the plants, but were turned away disappointed, the florists reaped a good trade from them."

This I failed to find a fact; most of the florists will exclaim, when that point is touched, "We would shut our doors for that class of trade; we cannot grow plants, bring them to the stores, sell them singly, and wrap up and deliver for any such price as that."

Another item objected to is the statement

"We are confident that Minnesota beats the world for roses grown under glass."

I for my part am sure we should present a sorry spectacle if we tried to pit our roses against the product of eastern growers, in quality as well as quantity and surely in the price. I am confident it costs us more by a great deal to produce them here, with the cost of fuel alone from $70 to $80 for each 1000 feet of glass, and we have always had to use more labor and more expensive houses; more piping and more wear and tear to our heating apparatus, and with weather like last year's, steady cloudy weather from November 1, almost continually till April 1, and way below zero as a usual thing, it is no easy matter to produce high grade roses, and they will not as an average compare with eastern grown flowers.

In conclusion let us say, and more espe-



TABLE DECORATION OF LA FRANCE ROSES AT CHICAGO SHOW. ARRANGED BY GALLAGHER FLORAL CO.

cially in regard to our unfortunate brothers in Minneapolis, the drygoods and department store custom of selling flowers is the greatest drawback and misfortune to our business. The florists are cursing the day they started to dispose of their surplus in that way. It has the most demoralizing effect on our business; people get so that they will not pay a fair price for flowers; they want them at "Glass Block" prices, or they want to know the reason why. It has got so far that the "Glass Block" almost controls the trade in the city. They have fitted up a fine store, and carry a big stock of flowers (very good flowers too) every day, take orders for anything, and advertise their "wholesale prices at retail" in the newspapers, so the news is carried over the country, thus spoiling the country trade as well. I believe there are now florists who are in such a position that they are almost compelled to sell their products to the same "Glass Block," and at prices dictated by this concern, or they would do no business at all. They all see their folly now that it is too late. If they had been less jealous and more united, and each had agreed to take a stand at the Central Market they could have disposed of their surplus there; if necessary at cut prices, instead of throwing it on to the department stores. They would thus have had a chance of controlling their own trade, but no, there is too much jealousy and ill-feeling to have anything in common. And now we suffer for it. These stores are more of a nuisance to us than the Greeks are in the eastern cities, because they are doing business every day, and doing it in a business-like way, spending large sums in advertising, and delivering their goods as well.

AUG. S. S.

Philadelphia.

Thanksgiving Day business was good and there has been enough doing the past week to keep all branches of the trade moving lively. Over 400 Beauties were shipped out of town one day this week by one of our commission men, and there seemed to be enough left to supply the home demand. This market could not have stood such a demand a year ago. There are more Beauties and Belles about and better stock than we have ever seen before at this season of the year. Prices range from $10 to $25 per hundred.

Good Meteors are selling very well; people are beginning to find out the virtues of this rose; the good keeping qualities and the length of time it holds its color are both points in its favor and we expect to see more demand for it in the future. Bridesmaid and Kaiserin are also growing favorites; the Bridesmaid will likely drive the Mermet out of the market, as it is nearly always given the preference when placed side by side on the counter. Daybreak pink, the Mermet shade now is all right in a carnation, but it does not seem to be the color in a rose. The small teas are now bringing 3 for the best; the larger class range from 4 for good flowers to 8 for first choice.

A few Harrisii are in and bring $16 per hundred. Carnations are up a little, the general variety selling for from 1.25 to 1.50 per hundred. Edna Craigs command 3 and seem to sell well at that. They are in the hands of a few men who grow them fine, disbudding and allowing but one flower to a stem. Double violets are very scarce, the ruling price being $1 per hundred. They are improving in quality, but have quite a distance to go yet before they can be called fine. A shade better than the common run have brought as high as $1 50. Singles are also scarce. Valley is plenty at 4. Romans and narcissus abundant at 2 to 4. Smilax 12 to 15, and asparagus 50c per string.

Chrysanthemums are now so poor that they are hardly worth quoting. The best flowers now are M. Wanamaker, $10; Eva Hoyt, Lincoln and Widener same price. We have seen some flowers of the new variety, Eugene Dailledouze, that were cut November 3 and sent by E. G. Hill & Co. to the Phila. show, where they received the prize for best seedling. After passing a week at the show, they have been since that time on exhibition in a florist's window, where they have been handled a great deal by admiring visitors and to-day, December 4, there are still two flowers of the lot which are in good condition, and in fact better than anything that is now being sent in. This will certainly become a standard variety.

The hybrid houses are now coming on and the growers are speculating on their chances of success. Anderson, Heacock, Burton, Lonsdale and Smith & Whiteley all have houses under way. There may be a few for the holidays, but the 15th of January is a more certain date for the first flowers.

A very interesting match of ten pins was played on the alleys last Tuesday night between the Brown and Crawford factions, and for the third time the Crawford team was victorious. The finish was very exciting. At the commencement of the last game the Browns were 129 pins ahead and it looked like a cinch for them, but the Crawfords took a brace and came out 3 pins ahead at the finish. They gained 69 pins in the last two frames.

K.

New York.

"Listen to my tale of woe." Will the New York growers ever learn their lesson? Ahead of the world in many things, yet they still persist in the antiquated custom of holding back their flowers in advance of a holiday, in order to load them in on the market at the last moment, with the hope of obtaining higher prices. It has been demonstrated over and over again on every occasion where the growers have attempted this that they have been heavy losers by the operation, and the absurdity of their course is apparent to everyone but themselves.

Thanksgiving Day demand was good and the results would have been satisfactory throughout had it not been for the enormous overstock of everything. With one third less stock on the market, prices would have been much better all round. As it was quantities were left over unsold which had they been sent in on Monday and Tuesday would have found a ready market; but on those days their owners

could not be induced to part with them, and customers who were willing to buy had to go without.

Outside prices obtained for extra good stock were 2 to 2.50 for violets, 5 to 6 for Brides and Bridesmaids, 8 for La France, 40 to 50 for American Beauty and 1.25 for carnations.

The Christmas Holidays are but three weeks off. The unexpected willingness of customers to buy flowers at Thanksgiving, notwithstanding the hard times, is an encouraging sign of what may be realized at Christmas if the old profitless tricks are abandoned and wise counsels prevail. To repeat the mistakes of former seasons will be suicidal this year and can result only in disaster.

Boston.

Thanksgiving Day trade came in the form of a welcome surprise to the Boston florists. The general testimony is that it was the best on record, a result entirely unlooked for in this season of industrial depression. There was a fair supply of everything in the market. The demand was general, with no special run on anything, excepting that crimson carnations enjoyed a little boom on account of the demand for this color occasioned by the foot ball contest at Cambridge.

At the exchange there was a strong tendency on the morning of the day preceding Thanksgiving, to advance prices sharply and early buyers paid well for what they got. This was most noticeable in the case of carnations, which for a time ruled at almost double prevailing rates. The commission dealers, on the other hand showed an inclination to resist the doubling up process. The weather was perfect, and growers, and dealers, wholesale and retail, were all in high spirits over the general result.

The exhibition of herbariums by the children of the public schools at Horticultural Hall, on December 1-2, was as usual very interesting. A marked improvement over former exhibitions, in the manner of mounting, accuracy in naming and general neatness, was noted. The collection by Arthur C. Boylston of Milton, an 11 year old lad, which took first prize for 125 plants, would compare favorably with anything of the kind done by mature collectors. Elizabeth C. Dudley's collection of 100 plants and Arthur C. Faxon's collection of 38 grasses also took first premiums in those classes and were very creditable. This line of instruction seems infinitely more useful than anything in the way of window gardening competition. The children are expected to collect, prepare and mount the specimens themselves, and to give the common and botanical name, as well as the habitat of each specimen, and garden plants, so-called, are excluded.

Cincinnati.

On last Friday and Saturday the new Jabez Elliott Floral Market House was thrown open to the florists of Cincinnati and vicinity. This building is the result of the fulfillment of the will of the late Mrs. Holroyd, who bequeathed the handsome sum of $15,000 for the erection of a market house for the exclusive use of florists. It is claimed that Cincinnati is the only city in this country having a public market house for this special purpose.

The building was erected on the site of the old floral market on Sixth street and is two stories high. The ground floor is entirely taken up by the flower stands and the second floor will be used as the home for the society. Thirty-nine large double stands have already been put in, with room enough left for a dozen more. Considerable opposition was met with from the produce commission men on either side of Sixth street, which caused the society a suit in court, but which they won after a long and bitter contest. But that is a thing of the past and we now have our reward. The florists were not able to make an extra fine display on the opening days owing to the extremely cold weather, but under the circumstances they did very well.

On Saturday evening the society gave their opening banquet, which was indeed very enjoyable. Florists from the surrounding cities were invited, but owing I suppose to the rush of business a large number of them were unable to attend. Over one hundred florists and prominent citizens sat down together to do justice to the elegant supper, which was truly a delight to the inner man. Mr. B. P. Critchell, our worthy president, was toastmaster and welcomed the guests in a very eloquent manner. Speeches were made by several gentlemen, among whom were Mr. N. Ohmer and Mr. H. H. Ritter of Dayton, O., Mr. Bertermann of Indianapolis, Mr. E. G. Hill of Richmond, Mr. M. A. Hunt of Terre Haute, Mr. Albert McCullough, ex-president Mr. Geo. Corbett and Mr. E. G. Gillett, the present secretary of the society.

At the last business meeting of the society several new members were elected and two or three more candidates are now on the way. The society is enjoying more prosperity now than ever before, and should in the future accomplish a good deal.

Florists report retail trade as being fair. Good roses are scarce and are bringing a good price.

Walter Gray's boiler house burned down last Saturday night, entailing a loss of $600. Unfortunately he carried no insurance.

Mr. Chas. A. Getz and our worthy secretary, Mr. Gillett, are on the sick list this week. ED. S. JOHNSTON.

Chicago.

Mr. Jas. I. Donlan has completed the work of packing and shipping the remaining exhibits in the New York state division of floriculture at the World's Fair, and accompanied by his wife, left for the east last Friday.

Thanksgiving trade is generally reported as excellent, the quantity sold being certainly larger than last year, but the prices were generally lower. There was a scarcity in some lines, especially carnations. Colored carnations are coming in in limited quantities, and the price holds up. Among fancies Daybreaks are scarce and in excellent demand, ranging from $2 to $2.50, and we hear of $3 being given for extra quality long stemmed Buttercups, which are always received in extremely limited quantities in our market. Violets also keep up in price, ranging from $1.50 to $2 at Thanksgiving and the latter price is still asked for extra quality flowers. The demand for them is far in excess of the supply.

In roses the greatest demand is of course for Beauty, and the supply is not nearly equal to the demand. Meteors too are in excellent demand, but Perles are a glut and there is very little demand for them, while it appears as if more are grown than ever. A good many pale Mermets are seen, and they can not compete with Bridesmaid, while Testout excels La France in selling, but is not plentiful. Brides of first grade seem a trifle scarce.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By young man in flower store. Thoroughly understands plants, etc. Address Z, care American Florist, Chicago.

SITUATION WANTED—By a gardener and florist. First-class references. State wages offered. Single. Address J. JAGODZINSKI, 111 String St., Chicago.

SITUATION WANTED—In private or commercial place; have 8 years' experience; American, age 30. Good references. Address E E, care Am. Florist.

SITUATION WANTED—By a florist with 16 years' experience. Speaks German and English. Either private or commercial. Good references. Address M D, care American Florist, Chicago.

SITUATION WANTED—By florist and gardener; well experienced in all branches; age 36. Best of references. Private or commercial place. FRANK OTTO, 583 Lincoln Ave., Chicago.

SITUATION WANTED—By a young man of good habits; practical grower of roses, carnations, violets, decorative and bedding plants, forcing bulbs. Good recommendations. Box 696, Batavia, Ill.

SITUATION WANTED—As foreman: practical grower of roses, carnations, violets, decorative and bedding plants, forcing of bulbs. References English and this country. State wages. Address FLORIST, 154 La Salle Ave., Chicago.

SITUATION WANTED—In commercial place by young man of good habits, who has had 6 years' experience in general greenhouse work. Not afraid of work; willing and obliging. Address LA FRANCE, care American Florist, Chicago.

WANTED—An experienced packer in the wholesale plant department of a good sized place. Must come well recommended as to ability and good character. State wages wanted. Address X A R, care American Florist, Chicago.

WANTED—Partner to take commercial portion of business, in a greenhouse plant now paying large profits. $1,500 cash capital necessary. A larger demand than the supply year round. Address H H, care American Florist, Chicago.

FOR SALE—$6,500 will purchase 12,000 square feet of glass, well stocked; 1 acre of land, and 8-room dwelling, in Chicago; or will rent greenhouses. Address M. OLSEN, 66 Wabash Ave., Chicago.

HOLLY.

On all orders given us **in season, we will Guarantee arrival** or no pay. We attempt no competition in price with stock which has never yet arrived, or—arrived after Xmas.

"A Case of Holly in front of the store is worth four (4) on the cars."

Bouquet Green AND Wreathing.

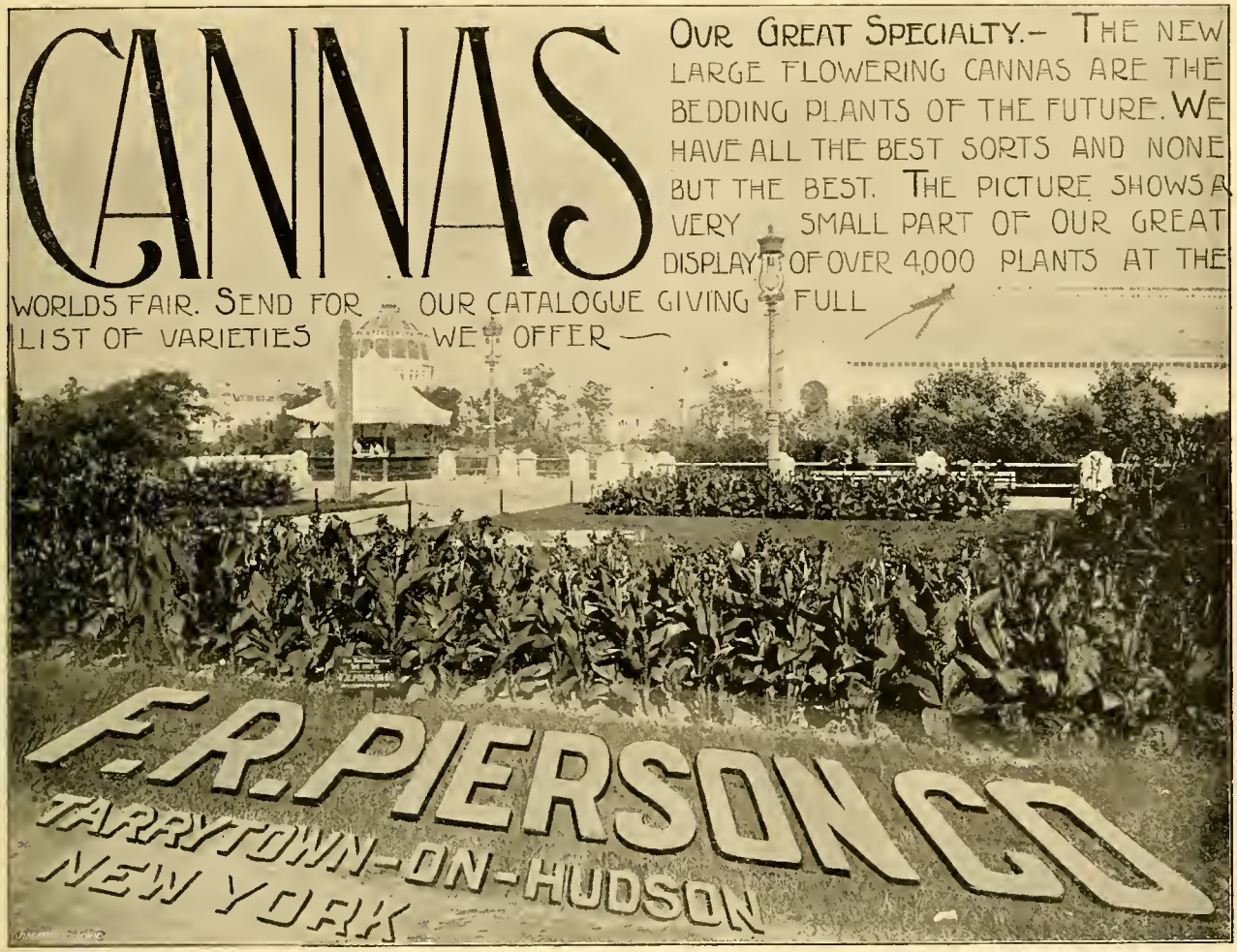
WE CAN MAKE CLOSEST RATES ON THIS STOCK AT ALL TIMES.

Scarlet Immortelles, fine, dozen, $2.75.

Write or wire us for latest price if you are in the market to buy.

J. C. VAUGHAN,

New York. CHICAGO.



BARGAINS,

In these plants, to move quickly. I need the room.

		Per 100
Geraniums, best bedders, strong, 2-inch,		$ 2.00
"	Bronze, strong, 2-inch,	3.00
"	Mme Salleroi, strong, 2-inch	1.50
Petunia, double, best sorts, strong, 2-inch		2.50
Primroses, single, best strain, strong, 2½-inch		3.00
"	single, best strain, strong, 3 inch	5.00
1500 Carnations, Portia, extra nice field grown		5.00
1000 "	Fred Dorner, extra nice field grown	5.00
100 "	Harry Palmer, " " "	5.00
200 "	Garfield, medium size, but good	5.00
200 "	Tidal Wave, " " "	4.00

Farleyense Ferns, vigorous plants, 3-inch, 25c each.
Chrysanthemums, stock plants, best sorts, 10 for $1.00
Rooted Cuttings Coleus, splendid assst., 50c. per 100.
" " Geraniums, best bedders, labelled, $1.25 per 100.
" " Geranium Mme. Salleroi, $1.00 per 100.

N. S. GRIFFITH, Independence, Mo.

Independence is well located for shipping, being 8 miles East of Kansas City, Mo.

HEADQUARTERS for WATER LILIES

SEED, TUBERS AND PLANTS.

Embracing all the newest and choicest in cultivation. Awarded SIX MEDALS at World's Fair—the highest number of awards for aquatics.

Illustrated descriptive Catalogue free on application.

Wm. TRICKER, DONGAN HILLS, New York.

P. SEBIRE & SONS,

Nurserymen. USSY, Calvados, FRANCE.

A general assortment of Fruit Tree Stocks, such as Apple, Pear, Myrobolan Plum, Mahaleb and Mazzard Cherry, Angers Quince. Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, etc. The largest stock in the country. Prices very low. Packing secured. Catalogue free Send for quotations before placing your order elsewhere. Agents for U. S. America and Canada.

C. C. ABEL & CO., P. O. Box 920, New York.

VERBENAS, MAMMOTH PLANTS, and Rooted Cuttings in perfect condition, bright colors in large quantities. Write me stating what you want. A few rooted Coleus and Pansy plants very low. W. B. WOODRUFF, Westfield, N. J.

HOW TO GROW CUT FLOWERS.

A PRACTICAL TREATISE ON

THE CULTIVATION OF THE ROSE,

And Other Flowering Plants for Cut Flowers, sent to any address upon receipt of $2.00. M. A. HUNT, Terre Haute, Ind.

100.000 VERBENAS.

THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.

NO RUST OR MILDEW.

Packed light and satisfaction guaranteed. Send for circular. . . .

We are the largest growers of Verbenas in the country. Our sales reaching last year 215,500. Our plants this year fully equal, if not surpass, any we have ever grown.

J. L. DILLON, Bloomsburg, Pa.

200,000 Pansies.

The Jennings strain of large flowering and fancy pansies may still be had in any quantity wanted. Plants are field grown, and are fine and stocky. Pure White, Yellow mixed, by Express, $5.00 per 1000; 5000 $20.00; 10,000 $35.00. Small plants by mail, 60c. per 100. Seed of either of the above, $1.00 per trade pkt. of 2,500 seeds. The leading strain. The largest sales. Always satisfactory.

ADDRESS E. B. JENNINGS,

WHOLESALE PANSY GROWER,

Lock box 254. SOUTHP RT, CONN.

CLEMATIS.

Large flowering, colors in variety, double and single strong blooming plants Plenty of Jackmanni and Henryi, best purple and white, $3.00 per dozen; $20.00 per 100. Send for list.

CYCLAMEN persicum splendens, blooming bulbs, $8.00 per 100.

Snowflake Daisy, double white, $1.00 per 100.

Longfellow Daisy, double red, $1.00 per 100.

F. A. BALLER, Bloomington, Ill.

Lady Hume Campbell.

I take pleasure in offering plants from the original stock of this grand VIOLET. Well rooted young plants, ready for delivery May 1, 1894.

PRICE, $3.00 PER 100.

This stock has always been entirely free from disease of any kind. Inspection invited. Orders booked now. H. HUEBNER, Groton, Mass.

Mention American Florist.

WATSON'S CORNER.

I intend to remain up in this corner permanently. Watch it for special announcements from time to time.

G. C. WATSON.

Wholesale Seedsman and Commission Merchant, 1025 ARCH ST., PHILA., PA.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Catalogues Received.

P. Lambert, Trier, Germany, roses; Wm. Chappelow, Monrovia, Cal., trees and plants; Beney, Lamaud & Musset, Lyon, France, seeds; West View Floral Co., Atlanta, Ga., plants; Edouard Parre, Ledeberg-Gand, Belgium, plants; Aug. Rolker & Sons, New York, metal jardinieres; Hugh Low & Co., London, wholesale plants; J. M. Thorburn & Co., New York, wholesale seeds; H. Cannell & Sons, Swanley, England, plants and bulbs; Louis Paillet, Paris, France, plants; W. & J. Birkenhead, Sale, Eng., a catalogue of ferns which is worthy of something more than a passing note, being beautifully illustrated, very comprehensive and as a book of reference exceedingly valuable.

ANDERSON, IND.—J. S. Stuart has purchased ground in Avondale, at the corner of Jackson and 21st streets, one mile south from the old place, where he has built two rose houses each 20x100, three-quarter span in latest and best style of construction. They will be heated by steam, using natural gas for fuel. They are planted with Testout, Bridesmaid, Kaiserin and Perle. The plants in the five large houses at the old place, which he still retains, are doing finely. He has recently opened a city store at 53 N. Meridian street and reports trade opening well for the season.

Oh Look!

CHRISTMAS PRICES.

Roman Hyacinths only $2.25 per 100

Cypripedium insigne $2.00 per dozen

Smilax, 25 cents a string.

CASH WITH ALL ORDERS.

Send your orders at once.

KOFFMAN, The Smilax King,
WALDEN, N. Y.

1,000
Long Strings of Smilax
FOR SALE.
M. R. CATLIN CO., RICHMOND, VA.

VALLEY. Plenty of it.
ROMAN HYACINTHS always on hand.
LIL. HARRISII, finest in the market.
ROSES. Best to be had.

Book your Christmas orders with us now.

Galax Leaves. We are Western Agents for one of the largest dealers in North Carolina, and can have them in our store within 48 hours after they are picked. Write us for estimate on large lot.

—— Shipping orders promptly attended to. ——

J. B. DEAMUD & CO., 45 Lake St., CHICAGO.

OUR SPECIALTIES FOR NOW:

First Premium **Valley** that could not be **beat. Chrysanthemums** that are fine, **American Beauties** and all roses first **quality, Carnations** in variety, extra fine **Smilax, Adiantum** and **Asparagus.** Our great specialty fine **ORCHIDS.**

CORBREY & McKELLAR,
WHOLESALE AND COMMISSION FLORISTS,
PHONE, MAIN 4508. 45 Lake St., CHICAGO.

FOR DECORATING, NOTHING CAN EQUAL
ASPARAGUS PLUMOSUS NANUS.
CUT STRINGS 8 TO 12 FEET LONG, 50 CTS. 12 TO 18 FEET LONG, $1.00.
Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.
W. H. ELLIOTT, Brighton, Mass.

Wholesale Florists
The LaRoche & Stahl Flower Co. Limited.
N. E. CORNER 13th & Chestnut Sts.
PHILADELPHIA.

SAMUEL S. PENNOCK,
Wholesale Florist
REAR OF 42 S. 16th STREET,
Philadelphia, Pa.

H. L. SUNDERBRUCH,
Wholesale Florist
4TH AND WALNUT STREETS,
Cincinnati, O.

CUT FLOWERS.
Roses, Carnations AND Chrysanthemums.
Write for prices.
GEO. A. KUHL, Pekin, Ill.

CUT FLOWERS.
Novelties and New Introductions in
ROSES AND CHRYSANTHEMUMS.
Fine Exhibition Stock.
THOS YOUNG, JR.,
WHOLESALE FLORIST,
20 WEST 24TH ST., NEW YORK.

DAN'L B. LONG,
COMMISSION • FLORIST,
495 Washington St., BUFFALO, N. Y.
FORCING BULBS, FLORISTS' SUPPLIES, LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application.

W. ELLISON,
WHOLESALE
Cut Flowers AND Florists' Supplies
1402 PINE STREET,
St. Louis, Mo.

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
WHOLESALE
FLORIST,
1122 PINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

E. H. HUNT,
WHOLESALE FLORIST

79 Lake Street, CHICAGO.

	Per 100
Perles, Niphetos, Guntier	$ 2.00@$ 3.00
Bride, Mermet, La France, Victoria	3 00@ 5 00
Testout, Meteor	5.00@ 6.00
Am Beauty	12.00@ 25.00
Carnations, long	1.00@ 1.50
" fancy	2.00
" short	.50@ 1.00
Valley, Romans, Paper White	4 00@ 5.00
Harrisil, Callas	12.00@ 18.00
Violets, single $1.00; double	1.50
Chrysanthemums, common	2.00@ 6.00
" fancy	8.00@ 20.00
Smilax	18.00
Ferns, common per 1000 $2.50,	.30
Adiantum	1.00
Fresh Cycas leaves $1.00 each.	

Western Agent for the GREAT ANTIPEST.

FLINT KENNICOTT, President. FRED. W. H SUNOMACHER, Sec'y and Treas.

Kennicott Bros. Co.
34 & 36 RANDOLPH STREET,
CHICAGO.

WHOLESALE CUT FLOWERS,
and FLORISTS' SUPPLIES.

WIRE WORK A SPECIALTY.

General Agents for Chicago and the Northwest of Kelsey's Beautiful New Southern Galax Leaves, $2.00 per 1000; 25 cents per 100.

A. L. RANDALL,
Wholesale Florist,
126 Dearborn St., CHICAGO.

Agent for finest grades Waxed and Tissue Papers.

NILES CENTER FLORAL CO.
Incorporated.
WHOLESALE GROWERS OF
CUT FLOWERS of ALL KINDS
and Dealers in FLORISTS' SUPPLIES.
In Chicago Cut Flower Exchange,
45 Lake Street, CHICAGO

REINBERG BROS.
WHOLESALE GROWERS OF
CUT FLOWERS
Roses, Carnations and Violets Specialties.
51 WABASH AVENUE,
Telephone 4937. CHICAGO.

WHOLESALE FLORISTS,
JOBBERS IN . . . FLORISTS' SUPPLIES,
METS, BRIDES, GONTIERS, CARNATIONS, ALWAYS ON HAND.
FLORISTS' VASES.
1 Music Hall Place,
BOSTON, MASS.
HORTICULTURAL AUCTIONEERS. . .

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St., BOSTON, MASS.

Wholesale Markets.

Cut Flowers.

NEW YORK, Dec. 4.	
Roses, Gontier, Niphetos	2.00
" Perle, Hoste	2.00@ 3.00
" Mermet, Bride	2.00@ 4.00
" Cusin, Watteville	2.00@ 4.00
" Meteor, Augusta Victoria	4.00@ 8.00
" Testout	4.00@12.00
" Beauty	5.00@40.00
Valley	3.00@ 4.00
Hyacinths, narcissus	2.00
Violets	1.00@ 2.50
Carnations	.75@ 2.00
Chrysanthemums	5.00@20 00
Smilax	10.00@12.00
Adiantum	1.00
Asparagus	50.00
BOSTON, Dec. 4.	
Roses, Gontier, Niphetos	2 00@ 3.00
" Perle, Sunset	4.00@ 5.00
" Bride, Mermet	3 0 @ 6.00
" Meteor, Testout	4.00@ 8.00
" American Beauty	16.00@35.00
Carnations	.7.@ 1.50
Chrysanthemums	6.00@ 8.00
Violets	1.00
Lily of the valley	4 00
Romans, narcissus	3.00@ 4.00
Harrisil, callas	12.50
Smilax	12.50
Adiantum	1.00@ 1.50
Asparagus plumosus	50.00@75 00
Stevia, bouvardia	1.00
PHILADELPHIA, Dec. 4.	
Roses, Perle, Gontier, Niphetos	2.00@ 3.00
" Cusin, Watteville, Hoste	2.00@ 3.00
" Bride, Mermet, Bridesmaid	4.00@ 5.00
" Meteors, Kaiserin, La France	4.00@ 8.00
" Belle, Beauty	16.00@20.00
Carnations, long	1.00@ 1.25
" short	.75
" Edna Craig	2.00
Violets, per 100 bunches, single $3 to $4	
" double	.75@ 1.00
Valley	3.00@ 4.00
Romans, Narcissus	4.00
Longiflorums, callas	8.00@12 00
Smilax	12.00@15.00
Asparagus, per bunch and string..50c to 75c	
Adiantum	1.00@ 1.50
CHICAGO, Dec. 5.	
Roses, Perle, Gontier, Niphetos	2 00@ 3.00
" Bride, Mermet, La France	3 00@ 5 00
" Kaiserin	3.00@ 5.00
" Meteor, Testout	5.00@ 7.00
" Beauties	12.00@25.00
" Bridesmaid	6.00
Carnations, long	1.00@ 1.50
" short	.50@ 1.00
" fancy	2 00@ 3.00
Valley	4.00@ 5.00
Romans	2 00@ 4.00
Paper White Narcissus	2.00@ 4.00
Harrisil, Callas	12.00@15.00
Violets	1.50
Smilax	12.00@18 00
Asparagus	50.00@75.00
CINCINNATI, Dec. 4.	
Roses, Beauty	15.00@25 00
" Mermet, Bride	4.00@ 5.00
" La France, Albany	5.00
" Perle	4.00
" Niphetos	3 00
Carnations, long	1 25
" short	.50
Callas	10.00@12.50
Harrisil	15 00
Violets	.25@ 1.00
Valley	4.00
Narcissus, Romans	3.00
Smilax	15.00
Adiantum	1.00
Asparagus	50.00@100.00
BUFFALO, Dec 5.	
Roses, Beauties	25.0 @35 00
" Mermet, Bride	6.00@ 8 00
" Testout, La France, Meteor	8.00@12.00
" Gontier, Niphetos, Hoste, Perle	5.00@ 6.00
Valley	5.00
Violets	1.50
Hyacinths	3 00
Carnations, long	2.00
" short	1.00
Chrysanthemums	25.00
Smilax	20.00
Adiantum	1.50
Asparagus	50.00

GEORGE A. SUTHERLAND,
SUCCESSOR TO
PECK & SUTHERLAND,
Successors to WM. J. STEWART,
CUT FLOWERS
and Florists' Supplies.
WHOLESALE.
67 Bromfield St., BOSTON, MASS.

CUT SMILAX,
15 cts. per string till November 1st. Quality first-class. Special attention to orders by wire.
E. BONSALL & SON, 308 Garfield Ave., Salem, O.

BURNS & RAYNOR,
29 West 28th Street,
NEW YORK,
Wholesale Dealers in and Shippers of
Choice Flowers
OUR SPECIALTIES:
AMERICAN BEAUTIES, METEORS, BRIDESMAIDS.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST,
32 West 30th Street, NEW YORK.
Roses Shipped to all points. Price list on application.

Violet Growers
find the best outlet for First-Class Blooms
AT
JOHN YOUNG'S,
53 West 30th Street, NEW YORK.
The largest and finest stock in the country is now coming to this establishment.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS,
51 W. 30th St., NEW YORK.

JAMES HART,
WHOLESALE FLORIST,
117 W. 30TH ST., NEW YORK.
The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHRS,
WHOLESALE
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.
Established 1879.

MILLANG BROS.,
Wholesale Florists,
17 WEST 28TH STREET,
NEW YORK.
BRANCH: Cut Flower Exchange, 408 E. 34th Street.

MICHAEL A. HART,
Wholesale AND Commission Florist
113 WEST 30TH STREET,
. . . NEW YORK.
THE FINEST ROSES AND CARNATIONS.
Branch, at Cut Flower Exchange, 408 E. 34th St.

Edward C. Horan,
34 W 29th Street, NEW YORK,
WHOLESALE FLORIST.
Careful Shipping to all parts of the country
Price list on application.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and treasurer, 116 Chambers street, New York. Next annual meeting second Tuesday in June, (will probably be held in Toronto.)

Talk erbout yer bankers an' yer anti-silver cranks,
Tut, there ain't no institootious like the sweet potato banks;
Log fires er boomin' in the winter night;
Mountain tops er bloomin' all in white;
Taters in the ashes, possum in the pan—
Talk erbout yer livin', beat that if yer can.

HUSTED, O.—The Husted Floral Co. has started here with about 2,000 feet of glass.

YELLOW SPRINGS, O.—Casper Peterson has put up a house containing about 1,000 feet of glass. M. L. Carr & Sons will increase their plant next year.

SAN FRANCISCO.—The Sherwood Hall Nursery Co. announces that the business will hereafter be conducted under the title Sunset Seed and Plant Co. The management and location remain as before.

OTTAWA, ILL.—The floral display at Fred J. King's anniversary opening was exceedingly fine and drew crowds of visitors. The display included large collections of chrysanthemums, roses and decorative plants. Among the attractions was a decorated dinner table.

ROCHESTER, N. Y—The greenhouses of White Bros. on the Thurston Road were destroyed with their contents by fire, early on the morning of Sunday, November 26. Overheated pipes are supposed to have been the cause. Loss estimated at $10,000, pretty well covered by insurance.

Forcing Roses.

A stock of the best varieties always on hand.

M. A. HUNT, Terre Haute, Ind.

ROSES.

SOUVENIR DE LA MALMAISON

Own root plants, out door grown, $15 per 100.

ULRICH BRUNNER, own root plants, out door grown, $15 per 100. Budded on Manetti stock, $15 per 100.

EDWIN LONSDALE, Chestnut Hill, Phila.

Hybrid Perpetual Roses,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

ROSES.

	Per 100	Per 1000
1500 Perle, 3-inch	$ 5.00	$40.00
1000 " 2½-inch	5.00	25.00
600 Bride, 2½-inch	3.00	25.00
1200 Mermet, 2½-inch	3.00	25.00
200 Hoste, 2½-inch	3.00	

BROWN & CANFIELD, Springfield, Ill.

For Mildew on Roses

and CARNATION RUST,

USE FOSTITE.

Book on Fostite sent free.

Address C. H. JOOSTEN,
3 Coenties Slip, NEW YORK.

ELECTROTYPES of VEGETABLES, FLOWERS, ETC.
VILMORIN, ANDRIEUX & CO., Seed Growers, Paris.
Apply for Catalogues. NOVELTY SHEET NOW READY.

Complete Stock in New York
— WITH —
THEO. PABST & CO., 26 Barclay Street.

FIFTY THOUSAND
PEARL TUBEROSES
F. O. B. NEW YORK.

We offer selected bulbs of above, from four to six inches in circumference, for shipment early in December, at $9.00 per 1000. Orders accepted subject to being unsold.

SWEET PEAS, California grown.

We are headquarters for California grown Sweet Peas, and parties desiring to contract for their requirements for season of 1894, will do well to write for prices.

SUNSET SEED & PLANT CO.
(SHERWOOD HALL NURSERY CO.)
427-9 Sansome St., *San Francisco, Cal.*

Hulsebosch Brothers,
OVERVEEN, HAARLEM, HOLLAND.

	Per 100	Per 1000
LIL. HARRISII, 7—9	$3.00	$25.00
" CANDIDUM	2.00	15.00
WHITE ROMAN HYAC., 11—15	1.75	15 00
ITALIAN, blush white Hyac., 12—17	1.75	15.00
NARCISSUS CAMPERNELLE	.60	4.50
SINGLE BEGONIAS, fine bulbs, new crop, finest strain, in 4 separate colors	4.50	35 00
CONVALLARIA MAJALIS, German pips	1.00	8.00
TUBEROSES, Pearl and Tall, Al.	.90	7.50

Low budded Roses, hardy Azaleas, Rhododendrons, Clematis, etc., etc., can be ordered at any time for March, '94 delivery.

HULSEBOSCH BROS.,
58 West Street, NEW YORK CITY.



TRY DREER'S
GARDEN SEEDS,
Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
HENRY A. DREER,
Philadelphia, Pa.

LILIUM HARRISII.
Original and largest growers of this important bulb.
OUR SPECIALTY:
True Stock. Lowest Prices. Best Quality.
F. R. PIERSON CO.,
TARRYTOWN-ON-HUDSON, NEW YORK.

E. G. HILL & CO.,
Wholesale Florists
RICHMOND, INDIANA.

CYCLAMEN GIGANTEUM from best seed, strong plants, showing bloom in 4 and 5-inch pots, $8, $10, $20, $30 and $50 per 100. Dozen at same rates. Assorted colors.

PRIMULA CHINENSIS, in variety of foliage and color, 4-inch pots, $8, $10 and $12 per 100. Dozen at same rates.

Promptly shipped at "FLORISTS" Express rates.
A. S. MacBEAN, Lakewood, N. J.



Write for Wholesale List.
MICHEL PLANT AND BULB CO.,
ST. LOUIS, MO.

Mention American Florist.

VALLEY PIPS.

Our XXX strain is a favorite with leading growers for Xmas forcing.

SAMPLE CASES OF 2,500 PIPS, AT $21.00.

W. W. Barnard & Co.
6 and 8 N. Clark Street, CHICAGO.

Z. De Forest Ely & Co.
WHOLESALE SEEDSMEN,
Growers AND Importers of Bulbs.
JOBBERS IN FLORISTS' SUPPLIES.
1024 Market Street, PHILADELPHIA, PA.
Price lists to dealers on application.

SEND for Catalogue of



JAPAN BULBS, SEEDS and SHRUBS, ARAUCARIAS, TREE FERNS, AUSTRALIAN PALM SEEDS, CALIFORIA BULBS and SEEDS to

H. H. BERGER & CO.,
Established 1878. SAN FRANCISCO, CAL.

WE SELL MUSHROOM SPAWN,
LILIUM HARRISII AND DUTCH BULBS.
Special Low Prices to Florists & Dealers.
WEEBER & DON,
Seed Merchants and Growers,
114 Chambers Street, NEW YORK.

G. J. MOFFATT,
Manufacturer of
PAPER BAGS AND ENVELOPES
Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN, CONN.
Mention American Florist.

Evergreen Wreathing.

Especially made for our Florist trade, from Select Green.

Medium heavy, per 100 yds. $3.50; per 1000 yds. $30.00.
Extra heavy, per 100 yds. $5.00; per 1000 yds. $45.00.

(Samples of medium grade, 20 yards for 75 cts. Samples of heavy grade, 20 yards, for $1.00.)

BOUQUET GREEN (In Bulk). Write or wire for lowest prices. We have a good stock of No. 1 green to offer.

HOLLY. (Well packed cases of 16 cubic feet), as good stock as the season has produced. Per half case, $3.00; per case, $5. Larger lots at lower prices.

Send for our Circular on Xmas Decorations.

W. W. Barnard & Co.
6 & 8 North Clark St., CHICAGO.

Siebrecht & Wadley,

ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.

Palms,
ORCHIDS,
Roses,
and New Plants.

FRESH DRACAENA CANES NOW READY.

ORCHIDS.

The Finest Stock in the World.

SANDER'S,
ST. ALBANS,
ENGLAND.

Thirty minutes from London.

Our Mr. A Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street New York City.

FRESH IMPORTED ORCHIDS.

Cattleya Gaskelliana,

5—7 Bulbs, $.75 each.
7—12 Bulbs, 1.25 each.
Larger plants, $2.00 to $5.00 each.

I. FORSTERMAN,
Newtown, N. Y.

Verbenas

SPECIAL OFFER.

	Per 100	Per 1000
Unsurpassed Mammoths, 2½-inch pots	$3.00	$25.00
" " rooted cuttings	1.25	10.00
General collection, named, " "	1.00	8.00
" " " 2½-inch pots	2.50	20.00
H. P. Roses, dormant, strong	6.00	75.00
Tea " " "	6.00	50.00
Forcing " 3-inch pots, "	6.00	50.00

WOOD BROTHERS,
Fishkill, N. Y.

Association "Flora"

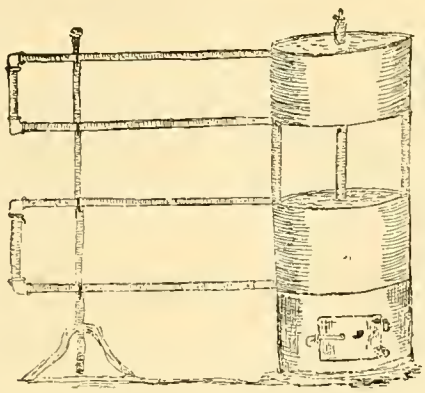
BOSKOOP, HOLLAND

NURSERIES.

Roses, Clematis, Shrubs, Azaleas, Palms, Herbaceous Plants, Bulbs, Etc.

Catalogue on Application.

P OUWERKERK,
206 Cambridge Ave., JERSEY CITY, N. J.



ATTENTION!

HAVE YOU A HORSE AND WAGON, IF SO, YOU WANT OUR NEW WAGON HEATER.

It pays for itself in less than one week's time if you take into consideration the valuable time you lose in packing your flowers, also paper, string, cotton batting, etc.; and still they freeze sometimes.

We guarantee that our heater will warm a wagon box 3x8, up to 50° in the coldest weather, so that plants can be delivered without being wrapped up. It is made of Galvanized Iron, and weighs 40 pounds when boxed. It will require ½ gallon of kerosene per day. **Price, $10.00.** Terms cash. Parties desiring it sent C. O. D. must remit enough to pay charges both ways.

WILLIAMS & PULT,
1624 & 1626 Broadway, WEST SUPERIOR, WIS.

DOES IT PAY?

to wait till the last moment.

NO! Then order your

Bouquet Green, Cut Ferns, Sphagnum Moss, Xmas Trees, Holly, Festooning, and Xmas Green of all kinds. ▲ ▲ ▲ ▲

And do it early. Write for prices—low as the lowest. A 1 goods, and the only place in the WORLD where you can ALWAYS get them.

H. E. HARTFORD, 18 Chapman Place, BOSTON.



FANCY. DAGGER.

EVERGREEN CUT FERNS

ESPECIALLY FOR FLORISTS' USE.

$1.25 per Thousand Ferns.



IN LOTS OF 5,000 AND UPWARDS, $1.00 PER 1000. Ferns furnished the year round. Special attention given to supplying the Wholesale Trade.

BOUQUET GREEN For Holiday Trade, $2.00 per barrel (thirty pounds); or $6.00 per hundred pounds. Special reduction in express rates.

SPHAGNUM MOSS a specialty. Long, clean fibre, dry or green, $1 per barrel, or six bbls. for $5. Write for terms on large lots. Terms cash, or goods will be sent C. O. D.

CHRISTMAS TREES. American White Spruce, much better shape and color than the Blue Spruce, also Balsam Fir from 3 to 30 feet high. Special attention to supplying carload lots. Write for price list and terms.

L. B. BRAGUE, Hinsdale, Mass.

City Stand During the Holidays: 47th St and Lexington Ave., NEW YORK.

We again offer our First-Class Holly—Good Green, plenty of Berries; also Pine and Cedar Branches—No berries J. H. HAROLD.
Marion Station, Md.

HOLLY

Holly, Pine and Cedar Branches, $5 00 per Case; 3 Case lots, $14 25; 5 Case lots, $22 50. Mistletoe, $5 00 per bbl. Little Pine Trees, 2 to 4 feet, $5 00 per Case. Freight paid.

KELSEY'S BEAUTIFUL NEW SOUTHERN Galax Leaves.

Unique, invaluable. Bronze or green, large and small, $2.00 per 1' 00, everywhere. One sample lot only of 5000 sent anywhere at half price.

FREE SAMPLES BY MAIL. Write quickly.

HARLAN P. KELSEY,
Highlands Nursery. **LINVILLE, N. C.**

General Agents for Chicago and the Northwest, Kennicott Bros. Co., 34 & 36 Randolph St., Chicago.

Mention American Florist.

WILD SMILAX.		$2.00 per barrel
" "		5.00 per 3 bbls.
HOLLY with plenty of berries	.	2.00 per barrel
MAGNOLIA FOLIAGE. .		2 00 per barrel
CHAMÆROPS EXCELSA Leaves		1 00 per 25.
CEDAR		2 00 per barrel
GRAY MOSS	per bbl. in sacks,	1.00.

CASH WITH ORDER.

MRS. ROBERT BROWN,
Box 156. NEW IBERIA, LA.

Wild Smilax, Pines and Palmettos

FOR DECORATIONS
AT LOW FIGURES.

Low freight rates by steamer to New York, Boston, Philadelphia and Baltimore.

A. C. OELSCHIG,
SAVANNAH, GA.

Mention American Florist.

Galax Leaves.

You cannot afford to be without them if you sell Cut Flowers and Decorate. Especially for Christmas. Big money in them. I sold 300,000 in 3 months last winter. $2.00 per 1000 by express. Sample 100 sent by mail on receipt of 50c.

LINCOLN I. NEFF, Florist,
4010 Butler St., PITTSBURG, PA.
AGENT FOR HARLAN P. KELSEY.

Buffalo.

The poorer the times the more the flower stores increase. The latest to appear will be that of Mr. James Buxton, whose store will be at the junction of Niagara and Eagle streets, a very fine location.

The outlook for society events was never so dismal as at present. Winter has come in earnest; perhaps that will help a little. Thanksgiving was a little let up to the past month's dull business. In fact it is conceded that it was a good Thanksgiving. It about cleaned up chrysanthemums for the season.

Mr. George Troup, superintendent of Forest Lawn cemetery, and Mr. M. Bloy, late with Mr. D. B. Long, have just returned from a short trip through the British Isles. Mr. Bloy reports seeing mums at the Edinboro flower show fully equal to the American standard and mostly American varieties.

Mr. James Milley has the sympathy of us all in the death of his wife, which occurred December 3. Mrs. Milley was a most estimable woman and her death will be a great blow to her family.

W. S.

Swainsona

GALEGIFOLIA ALBA.

The beautiful pea-like blossoms of this free blooming plant are produced in racemes three to five inches long.

IT IS ESPECIALLY VALUABLE TO THE FLORIST WHO GROWS AND RETAILS HIS OWN FLOWERS.

A few extra strong plants in bud and bloom, $1.00 per dozen.

Plants well established in thumb pots, $10 per 100.

EDWIN LONSDALE,

Money Order office, Station "H", Phila. | WYNDMOOR, nr. Chestnut Hill, PHILADELPHIA, Pa.

ASPARAGUS PLUMOSUS NANUS, good plants, from 4-inch pots $20 per 100

ASPIDISTRA, variegated. A few fine plants, 5 and 6-inch pots $4 per dozen

CLIVIA, from fine new European varieties, young plants, 4-inch pots $2 per dozen

EUCHARIS GRANDIFLORA, bulbs 5 to 6 in. circ., with healthy leaves. $3 per dozen

EULALIA UNIVITTATA $2 per 100; $15 per 1000

ARUNDO DONAX, variegated, strong roots, $2 per dozen. $15 per 100

IRIS GERMANICA, a fine pure white sort, perfectly hardy $10 per 100

PAEONIES, double white and double pink, two of the best, mixed $12 per 100

Any of the above will be sent on receipt of price with order.

ALEX. SCOTT,

Balto. Co., Lauraville, Md.

GERANIUMS.

At least 40,000 in flats, at $15.00 per 1000
At least 20,000 in 2½-inch pots . . . 20.00 per 1000
A few thousand Coleus in 2½-inch pots. 20.00 per 1000
A few thousand Double White Petunias, 2½-inch pots, at . 2.50 per 100
Ageratum, blue and white . . 2.00 per 100

At these prices the selection of sorts to remain with us.

The above are in fine condition. Cash with the order.

J. E. FELTHOUSEN,

370 Van Vranken Avenue, SCHENECTADY, N. Y.

HYDRANGEA,

THOMAS HOGG,

3 and 4-inch pots, $4.00 and $6.00 per 100.

BRAUER & RICHTER,

McCONNELSVILLE, OHIO.

IN THE FRONT RANK!

NEW WHITE CHRYSANTHEMUM

"MUTUAL FRIEND".

It is sure to be a prize winner and a leading variety for '94.

FIRST PRIZE and CERTIFICATE of MERIT MASS. HORT. SOCIETY, '93.

Orders booked now for March delivery, 50c. each; $4.00 per dozen. At these prices all should try it. We know it will please. Send for descriptive circular.

MANN BROS., Randolph, Mass.

CARNATIONS.

I have fourteen houses planted to carnations, and they are under my special care and supervision so that I can guarantee every cutting sent out.

If you will kindly write to me stating what varieties you want, how many of each, and when they are to be delivered, I will give you figures and think we can make a deal.

ANNIE PIXLEY.—This is a new pink, and one that you want to try; it is one of those beautiful light pinks, just the proper color. The stems can be cut fifteen to twenty inches long, the calyx never bursts, and it is such a strong grower and free bloomer that you can't help but make money if you plant it.

Orders will be filled in rotation, beginning now. Price per 100, $12.00; per 1000, $100.00. Twenty-five at 100 rate, 250 at 1000 rates.

PANSIES.

I will have good little plants right along until April 1st. The strain is good, extra good, and the price is very low, quality considered. Per 100, 75c; per 500, $3.00, free delivery; per 1000, $5.00, you to pay the delivery.

GERANIUMS.

Rooted Cuttings, all first-class varieties and good bedders. Price, in mixture, $10.00 per 1000; $1.50 per 100. In separate colors, $12.00 per 1000, or $2.00 per 100. There are no medium varieties among these; all are A No. 1.

Samples of any stock free. Terms absolutely cash with the order or C. O. D.

L. B. 496. ALBERT M. HERR, LANCASTER, PA.

New Yellow Coleus.

The Golden Crown is a perfect beauty,
On the lawn will do its duty;
Its color, style, and growth are fine,
'Twill make the landscape fairly shine.

Fine stock now ready, $3.00 per dozen; (Golden Bedder we don't want you).

The Verbena of yore was a modest wee styme,
Scarcely as large as a silver dime,
Until Henderson, the great floral arter,
Produced them as large as a silver quarter.
Still we're progressing, florists may laugh,
Gibson shows them as large as a silver half.

P. S.—We have a fair stock of the progressive seed and will gladly supply it to all who may need. 500 seeds 50 cts.; ½ oz. $1.00. 500 seeds 35 cts.; ⅛ oz. 60 cts. Post free.

Gibson's Pansies need no praisers,
They're such beautiful, scented blazers,
500 seeds 30 cts.; ¼ oz. $1.00; nice stocky plants 50 cts. per 100; $4.00 per 1000.

Dreer is the Petunia king,
His elegant stratus are just the thing.

Double hand hybridized, per 500 seeds 75 cts.; 1000 seeds $1 25 Plants and rooted cuttings flats.

Field-grown gold and silver variegated Vincas $5.00 per 100. Snow Crest Daisies, nice young plants, flats, $5.00 per 100. Cash with order please.

Address *J. C. GIBSON, Woodbury, N. J.*

COLEUS.

A large stock in 75 varieties, including the very newest kinds.

Rooted Cuttings in 30 to 40 varieties, at $6.50 per 1000 by express.
" " In 20 vars at $1 00 per 100 by mail.
Golden Bedder (true), at $10 00 per 1000.
Verschaffeltii, Golden Verschaffeltii, Mrs. I. D Haight, and other yellows, at $8.00 per 1000.
New Kinds including some of the most handsome ever offered for sale in 10 vars. at $2 per 100 by mail.
Stock Plants, ordinary kinds, at $3.00 per 100.
" " Verschaffeltii and yellows, at $4.00 per 100.
Cash with Order. Safe delivery guaranteed.

Also a large and fine stock of **CARNATIONS.**

— Send for circular. —

W. R. SHELMIRE, Avondale, Pa.

PALMS.

150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

Address **GEORGE WITTBOLD,**

1708 N. Halsted St., CHICAGO.

SWEETBRIER

Received 1st Premium for "best seedling of any color" at Phila., Nov. 7, '93. Color between Daybreak and Wilder.

"I like its color better than Daybreak."
EDWIN LONSDALE,
"Sweetbrier is all that can be desired."
W. A. MANDA.

Rooted cuttings, $10 00 per 100; $80.00 per 1000. Delivery to begin February 1, '94.

OPHELIA

Was winner of Craig Cup for best seedling at Phila., Spring of '93. Color darker than Wilder.

"That beats Edna Craig." BENJ. DURFEE.
"It is the best flower in your houses." ROBT. CRAIG.

Price and delivery same as above Flowers of both the above brought $5.00 per 100 wholesale at J. R. Freeman's, Washington, last winter. Send for price list of other varieties.

EDWD. SWAYNE, Kennett Square, Pa.

Carnations.

Field plants all sold.

Orders solicited for early delivery of **ROOTED CUTTINGS** in varieties suitable for summer blooming.

C. J. PENNOCK,

The Pines. KENNETT SQUARE, Chester Co., PA.

CYCLAMEN persicum giganteum 5-inch pots $10 00 per 100
GENISTAS, 2½-inch pots, strong plants, $6.00 per 100.
CARNATIONS, Dorner's Seedlings, $15 per 100 McGowan, Puritan, Wilder, and others, $8.00 per 100. Second size $6.00 per 100

Correspondence solicited.

Address **J. G. Burrow,**
FISHKILL, N. Y.

CARNATIONS.

All the new and leading varieties. Send for prices on what you want.

GEO. HANCOCK, Grand Haven, Mich.

	Per 100	Per 1000
Amaryllis Equestre	$ 4 50	$38 00
" Johnsoni.	10 00	
Zephyranthus (Amaryllis) Atamasco	75	4 00
Crinum Kirkii .	9 00	
Zamia integrifolia, per 100 lbs. $6.		
Sanseverias. .	4 00	35 00
Tillardsias or Air Plants in 5 vars. .	2 00	10 00

Seeds of Nymphæa Zanzibarensis and N. Dentata, $3 00 per ounce.

For other stuff send for our trade list.

BRAND & WICHERS, San Antonio, Fla.

P. S.—We supply our brother florists with Fancy Oranges for Christmas, $2.00 per box.

PLANTS OF

CHRYSANTHEMUM

ETOILE D'OR,
(Single Yellow Daisy.)

will be ready for shipment 1st of December. Strong plants in 3-in. pots ready for a shift, **$4 per dozen; $25 per 100.** These plants will be ready to bloom last of January and continue until July. Ours were the only bloom in the Philadelphia market last year.

Stock Limited.

S. EDWARDS & SON,
478 Irving Ave., BRIDGETON, NEW JERSEY.

CHRYSANTHEMUMS.

STOCK PLANTS.

The following kinds at 15 cts. each; $1.50 a dozen.

Christmas Eve, Domination, Excellent, Gorgeous, Gloriosum, Henry Cannell, Kioto, Louis Boehmer, L. C. Canning, Mistletoe, Mt. of Snow, Marvel, Miss Meredith, Mrs. Hicks Arnold, Mrs. Gov. Fifer, Mrs. A. Carnegie, Mrs. Geo. Bullock, Mrs. F. Thompson, Mrs. Fitler, President Hyde, Puritan, Rohallion, Tuxedo, V. H. Hallock, W. W. Coles, Waban, W. H. Lincoln.

The following kinds at 25 cts. each; $2.50 a dozen.

Harry Balsley, H. E. Widener, Ivory, Jessica, Minnie Wanamaker, Mrs. C. D. Avery, Mrs. J. G. Whilldin, Mrs. D. C. Smith, Miss Mary Wheeler, Mrs. Langtry, Sec'y Farson, T. C. Price, Viviand-Morel. (I have the best shipping facilities.)

ANDREW BATHER, Clinton Iowa.

CHRYSANTHEMUMS.

STOCK PLANTS.

AT 50c. EACH—The Queen, Golden Wedding, Mrs. Jerome Jones, Niveus, Maud Dean, Joey Hill, Pres. Wm. R. Smith, A. T. Ewing, W. G. Newitt, W. N. Rudd, Jennie Williams, Geo. R. Gause.

AT 25c. EACH, (All good for cutting)—Amber Queen, Armada, Mrs. Harmon Payne, Mme. Edward Rey, Mlle Therese Rey (fine), Mme. Octave Mirabeau, Mme. Isaacs, Harry Balsley, Joseph H. White, Mrs. J. G. Whilldin, Marguerite Graham, Marguerite Jeffords, Miss Kate Brown, Golden Bale, Waban, Mrs. E. W. Clarke, Miss Lyda Hopkins, Judge Hoit, Mrs. Robt. Craig, F. Bergman, Good Graelous.

AT 12½c. EACH—Ivory, Viviand-Morel, Violet Rose, Jessica, Golden Gate, Sweet Lavender, Mlle. Ferber, L. Canning, Cullingfordii, Elise, Kioto.

CHICAGO FLORAL CO.,
38th St. & Grand Boulevard, CHICAGO, ILL.

3,000

Fine Stock Plants of

CHRYSANTHEMUMS.

Finest Market and Fancy varieties.

☞Send for list and prices.

W. C. COOK & CO.,
70th St. and Adams Ave.,
CHICAGO.

Rooted Cuttings

COLEUS, 10 sorts, **60c. per 100**
BY MAIL.

SAMPLE DOZEN, without names, mailed for 10 cts.

S. O. STREBY,
Lock Box 77,
UPPER SANDUSKY, OHIO.

THE QUEEN

has proved to be the best White Chrysanthemum up to date.

Received First Premium for best White Seedling at New York and Cincinnati in 1892 where shown.

Acknowledged to be the GRANDEST WHITE at the WORLD'S FAIR CHRYSANTHEMUM SHOW.

ORIGINAL STOCK:

Very strong, at $1.00 each; medium, at 50 cts. each. Rooted Cuttings ready January 1st, at 10 cts. each; $1.00 per dozen.

Stock plants of other selected new vars of '92, guaranteed true to name, at 50c. each; $5 per doz.

Niveus,	Maud Dean,
Mrs. Craige Lippincott,	Comrade,
Golden Wedding,	Joey Hill,
H. L. Sunderbruch,	Lena Walz,
Pres. Wm. R. Smith,	F. H. Spaulding,
M. B. Spaulding,	Judge Hoitt,
W. N. Rudd,	Miles A. Wheeler,
Ermenilda,	O. P. Bassett,
Mrs. J. W. Crouch,	Mrs. Ley, etc.

Older Standard varieties, at 25c. each; $2.00 per dozen.

Ada Spaulding,	Harry Balsley,
Geo. W. Childs,	Edw. Hatch,
Mrs. L. C. Madeira,	Col. W. B. Smith,
M. Wanamaker,	Ada Le Roy,
Kate Brown,	W. H. Lincoln,
Hicks Arnold,	H. Widener,
Maria Simpson,	Mermaid,
Marguerite Jeffords,	Harry May,
Mrs. J. G. Whilldin,	Kioto, etc., etc.

FRED. S. WALZ, Station A, Cincinnati, O.

STOCK PLANTS OF

THE QUEEN,
CRAIGE LIPPINCOTT,
MRS. L. C. MADEIRA,
MRS. JEROME JONES,
NIVEUS.

AND ALL THE PRIZE WINNERS. Good plants of above at 50 cts. each.

SEND US THE LIST which you made up at the shows and we will **fill it all** and save you money.

J. C. VAUGHAN,

NEW YORK: 26 Barclay Street.
CHICAGO: 146 & 148 W. Washington Street.

Mrs. Craige Lippincott.

The finest Yellow Chrysanthemum yet introduced, and the best for commercial use.

GET STOCK PLANTS FROM THE ORIGINAL INTRODUCER.
$4.50 per dozen; $30.00 per hundred.

HUGH GRAHAM, 1204 Chestnut Street, Philadelphia, Pa.

CHRYSANTHEMUMS.

STOCK PLANTS
—OF ALL THE—
BEST VARIETIES.

☞ *PRICES ON APPLICATION.*

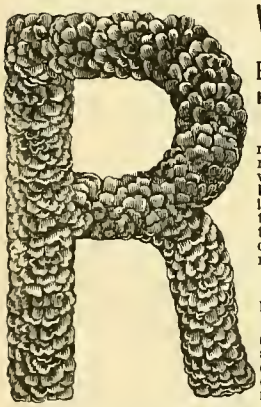
NATHAN SMITH & SON,
Adrian, Mich.

St. Louis.

Steady cold weather and Thanksgiving arrived about the same time, and while the latter may be looked upon for starting a good trade, the former can be credited with keeping it up. There is just about enough coming in to satisfy demands without having anything to spare while now and then some variety will be a little short. Prices have remained about the same, Beauties ranging from 5 to 25, Brides, Mermets, and Meteors 4 to 5, and smaller varieties from 3 to 4. Beauties are inclined to be in short supply, while Meteors are always short, the trouble being to get enough good flowers during the winter season to make their growing profitable. Some fine Kaiserin and Testout are being received by W. Ellison from W. W. Coles, of Kokomo. They are classed as extras and go at once at an advanced figure. A strange thing is noted regarding Testout; the finest flowers meet with ready sale, while good medium stock cannot be given away. Carnations are in fair supply and fancy varieties average 1.50, some going as high as 2. Some extra fine Daybreak went as high as 2.50 recently.

While trade is, and promises to continue good collection are slower than at any time during the summer months.

R. F. T.



W. C. KRICK'S
PATENT
Florists' Letters, Etc.

Highest award wherever exhibited.

These Letters are made of the best immortelles, wired on wood or metal frames having holes drilled in them to insert toothpicks, by which to fasten them in the design. All infringements prosecuted.

2-inch Letters, $3 00 per 100.
Postage, 15c. per 100

Before purchasing send for free sample and Catalogue and compare with any other letter in the market.

W. C. KRICK, 1287 Broadway, BROOKLYN, N. Y.

Agents:—J. C. VAUGHAN, Chicago, Ill.; H. BAYERSDORFER & Co., Phila., Pa.; N. STEFFENS, N. Y.; AUG. ROLKER & SONS, N. Y.; ED. S. SCHMID, Washington, D. C.; JAMES VICK'S SONS, Rochester, N. Y.; T. W. WOOD & SONS, Richmond, Va.; J. A. SIMMERS, Toronto, Ont.

Mention American Florist

BOSTON FLORIST LETTER CO.,
13 Green Street, BOSTON, MASS.
Address all correspondence to 1 Music Hall Place.
Manufacture THE BEST LETTERS IN THE MARKET.
Sizes 1½-inch and 2-inch, $2.00 per 100. Patent fastener with each letter.
With orders for 500 letters we give away a nicely stained and varnished box. See cut in next week's American Florist.

Our letter is handled by all the wholesalers in Boston.
AGENTS: A. Rolker & Sons, New York; Marschuetz & Co., 23 N. 4th Street, Philadelphia, Pa.; F. E. McAllister, 22 Dey St., N. Y.; Ernst Kaufmann & Co., 113 N. 4th St., Philadelphia, Pa.; H. Bayersdorfer & Co., Philadelphia, Pa.; A. D. Perry & Co., 33 Warren St., Syracuse, N. Y.; A. C. Kendall, 115 Ontario St., Cleveland, O.; E. H. Hunt, 79 Lake St., Chicago; Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.; H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.; T. W. Wood & Sons, 6th and Marshall Sts., Richmond, Va.; Jas. Vick's Sons, Rochester, N. Y.; Dan'l B. Long, Buffalo, N. Y.; C. A. Kuehn, St. Louis, Mo.; C. F. Huntington & Co., Indianapolis, Ind.; Z. De Forest Ely & Co., 1024 Market St., Philadelphia, Pa.; Portland Seed Co., 171 2nd St., Portland, Oregon.
J. A. Simmers, Toronto, Ont., Agent for Canada.

YOU CAN SAVE MONEY BY PURCHASING, AND GLASS BY USING
Hamilton's Patent Sash Lifter.
The best thing of the kind ever invented for greenhouse use. Send for description and price list.
BAY STATE HARDWARE CO.,
272 Freeport Street, BOSTON, MASS.

NOW IS THE TIME
when every florist looks for his catalogue
—OF—
FLORISTS' SUPPLIES
and we would advise them before ordering to get our catalogue, it contains the **Low Prices** of everything in the line.

We have just received a new importation of
EXTRA FINE IMMORTELLES
in all colors.
And you will do well by getting our lowest quotations on them.

MARSCHUETZ & CO.,
23 & 25 N. 4th St., PHILADELPHIA.

Kelsey's Galax Leaves and other Southern Christmas Greens
ALWAYS IN STOCK.

Immortelles, natural yellow, at $2 00 the dozen bunches; white, scarlet, purple, blue, pink and other colors at $2.75.
Hartford Fern, paper pressed, in papers of one dozen fine fronds with foliage, at $3.00 the dozen papers.
Maidenhair Fern, paper pressed, at $3.50 the dozen papers.
Cycas Leaves, (Sago Palm), natural prepared, equal to fresh cut in appearance, according to size at 40c., 45c., 50c., 60c. & 75c. each.
Holiday Baskets, Plant stands, Pot-holders, Metal Fern dishes and Jardinieres bowls, in rich and tasteful assortment.
Supplies of all Kinds, such as: Cape Flowers, Milkweed balls, Funeral Sheaves, Metal Designs, Moss, Wire, Tinfoil, Christmas Greens, etc., etc.; all quoted in our beautifully and richly illustrated new Trade List, mailed free. Address

August Rolker & Sons,
136 & 138 W. 24th St., P. O. Station E. **New York.**

Medal Awarded
at World's Columbian Exposition to
ERNST KAUFMANN & CO.,
113 N. 4th St., Philadelphia, Pa.
FOR
METALLIC DESIGNS, WHEAT SHEAVES, CELLULOID BASKETS AND POT COVERS,
and all Florists' Supplies

CINERARIAS.
Dwarf and the Tall varieties, from seed of the first quality, 2½-inch, $2.50 per 100; 3inch, $4.00 per 100.
FUCHSIAS, Rooted Cuttings, mixed varieties, $1.00 per 100.
S. WHITTON, 11 Roberts St., Utica, N. Y.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.



Florists' Pins
Glass Heads, in Black or White.

PRICES:
1, 1½, 2, 2½, 3, 3½, 4 inches,
50c, 75c, $1.00, $1.25, $1.50, $1.75, $2.00 per 1000

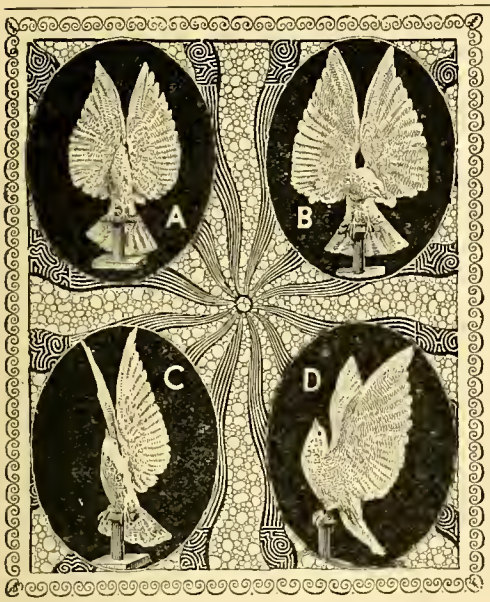
For Sale by
August Rolker & Sons, New York.
Wm. Elliott & Sons, New York.
H. Bayersdorfer & Co., Philadelphia.
N. F. McCarthy & Co., Boston.
E. H. Hunt, Chicago.
J. C. Vaughan, Chicago.
W. Ellison, St. Louis.
E. W. Crook, San Francisco.
S. Tidy & Son, Toronto, Ont.
Edw. Mullin, Kingston, Ont.

AUG. F. BRABANT, Manufacturer,
54 Warren Street, NEW YORK.
Mention American Florist.

H. BAYERSDORFER & CO.,
WHOLESALE
FLORISTS' SUPPLIES ONLY,
56 N. 4th Street,
PHILADELPHIA, PA.
Our new Catalogue is now out, free upon application.

HUNTINGTON SEED CO.
Florists' : Supplies,
66 E. WASHINGTON ST.,
INDIANAPOLIS, IND.
Standard Flower Pots, Dried Grasses, Fancy Baskets, Metal Designs. Trade Catalogue mailed free.





WHITE DOVES
for Florists.

× IX ×

For sale by all First-Class Dea'ers.

× × ×

First quality..... $14.00 a doz.
Second quality..... 12.00 "
Extra selected..... 15.00 "

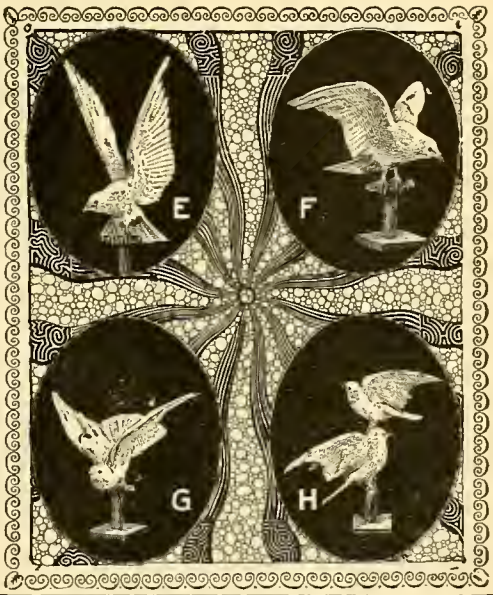
10 per cent. off on orders of two dozen or more.

× × ×

S. J. RUSSELL,

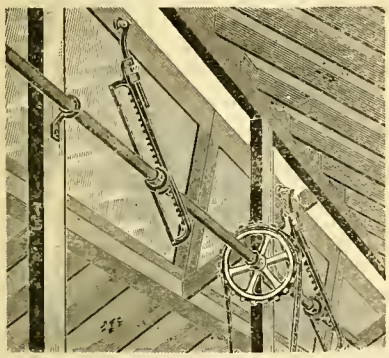
850 Montgomery St.,

JERSEY CITY, N. J.



SEE HERE
BROTHER
FLORIST!

Aren't you tired going through your houses two or three times a day year after year and lifting your ventilating sash one at a time and propping them up with sticks or pots, with a chance of having sash blown off and broken glass to pay for? If you are



We have got just the thing you need, the **NEWEST** and **BEST** thing out. "The New Departure" for **about half** the cost of the old style. Send for Descriptive Catalogue to

J. D. CARMODY, Evansville, Ind.

CUTS!



WOOD ENGRAVING,
PHOTO-ENGRAVING,
WAX ENGRAVING,
ZINC ETCHING,
HALF-TONE,
DESIGNING.

MANZ & CO.,

183 Monroe Street, CHICAGO. ENGRAVERS

Send orders for . . .
CLEAR CYPRESS
Greenhouse Material
from bottom of gutter up.
Correspondence solicited. Estimates cheerfully furnished.
LYMAN FELHEIM, ERIE, PA.

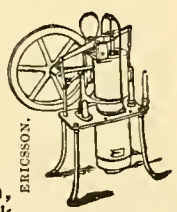
D. H. ROBERTS,
159 and 161 S. Fifth Avenue, - NEW YORK,
NATURAL GAS MADE GLASS,
FOR ROSE HOUSES, CONSERVATORIES, ETC., ETC.



Pat. 1882, '85, '86, '88, '90, '91.

FOR WATER, AIR, STEAM, ACIDS, OILS, LIQUORS, GAS, SUCTION,
And for any and every purpose for which a hose can be applied.
Sizes, ⅛-inch to 42 inches diameter.
The making, vending or use of any Serviceable Armored Wire Bound Hose not of our manufacture is an infringement on one or more of our Patents. The rights secured to us render each individual dealer or user responsible for such unlawful use with all the consequences thereof. For prices and discounts address **WATERBURY RUBBER CO.,** Sole Mf'rs and Owners of all the *Sphincter Grip Armored Hose Patents*, 49 Warren Street, New York
J. C. VAUGHAN, Agent, CHICAGO.

WATER
For Your GREEN HOUSE, ROSE HOUSE, NURSERY,
Conservatory, Lawn, House, Garden, Stock or any other purpose.
Send for Illustrated Catalogue OF THE
DE LAMATER-RIDER AND DE LAMATER-ERICSSON PUMPING ENGINE.



HOT-AIR PUMPING ENGINE.

Their operation is so simple and safe that a child can run them. They will pump water from shallow streams or any kind of well. They can be arranged for any kind of fuel. Capacity 1,500 to 30,000 gallons of water a day, according to size.



The De Lamater Iron Works,
87 South Fifth Avenue,
NEW YORK, N. Y.

FLORISTS' HOSE,
Made by E. W. Holt, member of the Society of American Florists.
Goodyear Rubber Store,
2 W. 14TH ST. NEW YORK.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

TO **FLOWER** AND
FRUIT GROWERS.
We offer Muriate Potash, Nitrate Soda, Bone Black, and all
Agricultural Chemicals,
Fungicides and Insecticides,
either crude or combined by standard formulas, in large or small lots, at lowest wholesale prices. Ground Tobacco Stems—Flower Fertilizer, put up in small packages for retail trade.

W. S. POWELL & CO.,
Fertilizer Manufacturers, Baltimore, Md.

CANE STAKES
10 to 12 feet long,

at $4.00 per 1,000
3.50 by 5,000
3.00 by 10,000

A. C. OELSCHIG,
. . SAVANNAH, GA.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

Baltimore.

Thanksgiving day was a delightful day in many ways, skies clear, temperature summer like, and streets dry. It may be imagined that everybody that could get out was out of doors and the demand for flowers soon left the supply out of sight. Pretty much every thing in the way of cut bloom was entirely cleaned up at good prices and it almost seemed like the beginning of better things. The demand soon let up though and by Saturday matters and things floral were at their accustomed standstill. Violets continue very scarce, but roses are coming in freely and of very good quality in the main. Roman hyacinths are making their appearance.

Mr. R. J. Halliday, who has been suffering from a prolonged attack of neuralgia of the stomach is improving.

The crape-puller, as the solicitor of orders for funeral work is called, has probably come to stay, whether the trade in general likes him or not; every few days one doing business in the city is reminded of the fact, by the complaints of customers, "Oh! That is twice as much as a man offered to make us the same piece for this morning" or, "We would have come to you for flowers, but such a man came to the door and offered them so cheap, and talked so nicely we gave him the order."

There is something repulsive in the idea of going to houses where a death has occurred and soliciting orders for flowers, to most minds, but apparently there are plenty who are not so constituted, and if the people who give the orders take no offense why should others? The only drawback to it seems to be the imminent probability that people of good taste will become disgusted, the rank and file of society will follow their lead, and "no flowers" will be a standard ending to all funeral notices, until the use of them at funerals will have passed out of mind altogether.

MACK.

THE THIRTEENTH ANNUAL REPORT of the North Carolina Horticultural Society, recently received by us, must be specially recommended for the practical nature of its contents. Its garden calendar, lists of fruits and vegetables adapted to that state, and numerous essays are all written from a business standpoint and give permanent value to the report.

When writing to any of the advertisers on this page please mention the American Florist.

FLORAL DESIGNS

The Cut Flower Worker's Friend. Fine book of 160 pages. Send **$3.50** for it, to

J. HORACE McFARLAND, Harrisburg, Pa.

STANDARD FLOWER POTS.

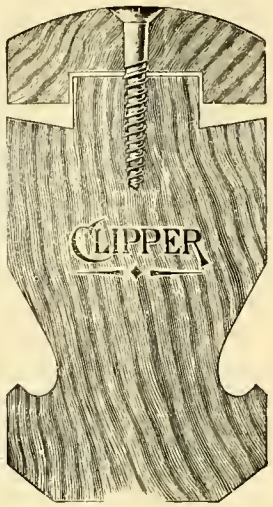
Price List.

2 -inch,	Per 1000 $3.25	7-inch,	Per 100 $ 3 50
2½-inch,	" 3.50	8-inch,	" 5.00
2½-inch,	" 4.00	9-inch,	" 7.50
3 -inch,	" 5.00	10-inch,	" 10.00
3½-inch,	" 7.25	11-inch,	" 15 00
4 -inch,	" 9.00	12-inch,	" 20.00
5 -inch,	" 13.80	14-inch,	" 40.00
6 -inch,	" 22.00	16-inch,	" 75.00

Terms cash, f o b. Address

HILFINGER BROS. POTTERY, Fort Edward, N. Y.

August Rolker & Sons, 136 & 138 W 24th St., New York City, Agents for New York and vicinity.



Mention American Florist.

THE "LOCKLAND" Sash Bars

ARE ALWAYS SATISFACTORY.

This cut represents our Improved Clipper Bar for Butted Glass roof. **No Putty required.**

GUTTER MATERIAL, RIDGES, SASH, ETC.

The finest **CLEAR CYPRESS** used.

For circulars and estimates ADDRESS

LOCKLAND LUMBER CO.

Lockland, O.

"Standard" Flower Pots.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Potterv Company,

BRANCH WAREHOUSES: 713, 715, 717 & 719 Wharton St., Philadelphia, Pa.

Randolph Ave. and Union St., Jersey City, N. J.

Jackson Ave. and Pearson St., Long Island City, L. I.

STANDARD FLOWER POTS

Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.

A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.

We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

Send for price list and samples and we know you will give us an order.

SYRACUSE POTTERY CO. OFFICE: 403 North Salina Street, SYRACUSE, N. Y.

STANDARD FLOWER POTS.

OLD RELIABLE MAKE OF

ELVERSON, SHERWOOD & BARKER.

Write for Catalogue and Price List.

PITTSBURGH CLAY MFG. CO. New Brighton, Pa.

STANDARD FLOWER POTS

Our new **Pottery,** new **Machinery,** the very **best Clay** in the **Country,** and our new **Patent Kilns,** all combined, make the **best Standard Pot in the market.** Send for price list.

PARMENTER MF'G COMPANY,

GEORGE MESSINGER, Manager. East Brookfield, Mass.

DON'T MISS IT. YOUR CHANCE TO MAKE MONEY WITHOUT ANY SPECIAL EFFORT BY TAKING SUBSCRIPTIONS FROM YOUR CUSTOMERS FOR **GARDENING.**

THE GARDENING CO., Monon Building, CHICAGO.

LITTLE'S ANTIPEST.

—A—

Valuable Discovery of the 19th Century.

SILVER MEDAL AWARDED

—BY THE—

CALIFORNIA STATE FAIR OF 1890.

This preparation is a sure destroyer of the **Scale, Wooly Aphis** and **Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure** and **Cheap.** No fruit grower or florist should be without it.

Send for Circulars and Price List.

R. W. CARMAN, General Agent,
291 AMITY STREET,
FLUSHING, Queens, Co., N. Y.

Increase Your Business

by fostering an interest in plants and flowers among the people in your vicinity. You can best do this by getting subscribers to

GARDENING . . .

which tells people how to get the most satisfaction out of their gardens, and stimulates them to enlarge and extend their gardening operations.

$1.00 A YEAR is the subscription price of this paper, which is issued twice a month, is handsomely and truthfully illustrated, is thoroughly practical, absolutely free from wind and gush and grinds no axes for anyone.

SPECIAL LOW RATE to florists who will act as agents. We want an agent in every city and town in America. Write for terms now to

THE GARDENING CO.
Monon Building, CHICAGO.

THE CHAMPION Automatic Ventilator.

The cheapest, easiest to operate, and by far the best machine in the market. Don't buy a Ventilator until you have seen my illustrated descriptive circular, which will be sent you free, giving prices, etc. Also **Champion Soil Pulverizer and Sifter.**

Address, Box 114. **E. E. WOLF,** SPRINGFIELD, O.

THE PERFECT DRAINAGE

BENCH TILE

For circulars, etc., address

W. P. Wight, Upland Green Houses,
Send your business card. MADISON, N. J.

CATALOGUE PRINTING. ELECTROTYPING.

Done with expert ability for Florists, Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.
. . . HARRISBURG, PA.

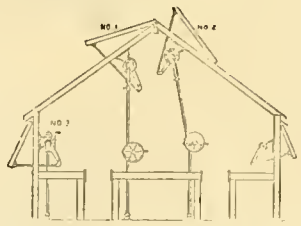
GLASS. ROCK BOTTOM PRICES Send for Estimate. Satisfaction Guaranteed.
REED GLASS CO.,
65 Warren St., and 46, 48 & 50 College Place,
New York City.

VICTORY! VICTORY! VICTORY!

The only Certificate of Merit awarded for ventilating apparatus at the St. Louis Convention was to the

POPULAR STANDARD VENTILATING MACHINE

The florist's friend in working and prices.



No repairs for 5 years. no chains to break as is the result with others.

Opens Sash uniform on 100 foot houses. A new device.

Send for Catalogue and Estimates.

E. HIPPARD, Youngstown, Ohio.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO.

NATURAL GAS MADE GLASS,

FOR GREENHOUSES.

Write for latest prices.

FRENCH GLASS For CONSERVATORIES, ROSE HOUSES, Etc. Etc.

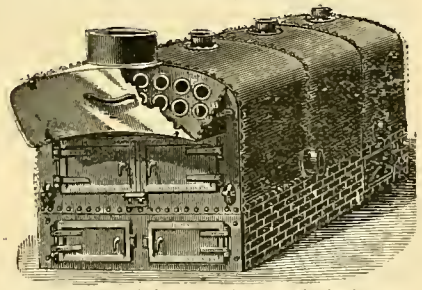
VANHORNE, GRIFFEN & CO.,

Importers of PLATE and WINDOW GLASS. Manufacturers of BENT GLASS and FRENCH MIRRORS.

131-133-135-137 FRANKLIN STREET, **NEW YORK.**

Note—Imported Glass is used in the best grade of Greenhouse building

KROESCHELL BROS.
IMPROVED
Greenhouse Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

Mention American Florist.

EVANS' IMPROVED
CHALLENGE VENTILATING APPARATUS

Write for Illustrated Catalogue.
QUAKER CITY MACHINE WORKS, Richmond, Ind.



GREENHOUSE HEATING
AND VENTILATING.
Superior Hot Water Boilers.
JOHN A. SCOLLAY,
74 & 76 Myrtle Ave., Brooklyn, N.Y.
☞ Send for Catalogue.

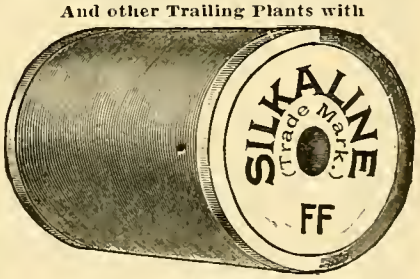
MAIL

LOCK THE DOOR BEFORE THE HORSE IS STOLEN.
DO IT NOW.

JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

STRING SMILAX

And other Trailing Plants with



JOHN C. MEYER & CO.,
289 Devonshire St., BOSTON, MASS.
For sale by all leading Florists' Supply Houses.

J. N. STRUCK & BRO.

Manufacturers of

• CYPRESS •
Greenhouse Material,

LOUISVILLE, KY.

GURNEY Hot-Water Heaters FOR Greenhouses.

Send for a copy of our book "How best to heat our houses."

GURNEY HOT-WATER HEATER CO.
163 FRANKLIN ST., BOSTON.
Branch Office: 59 Wabash Avenue, Chicago, Illinois.
Selling Agencies: Johnson & Co., 71 John St., New York City. J. C. F. Trachsel, 246 Arch St., Philadelphia

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Index to Advertisers.

Abel C C & Co.....421
Adv. Rates, etc.....422
Baller F A 421
Barnard W W & Co424 425
Bather Andrew R .. 427
Bayersdorfer H & Co ..428
Bay State Hdw Co.....428
Berger H H & Co.....424
Bonsall Jos E & Son...423
Boston Letter Co 428
Brabant Aug F.....428
Brague L B.....425
Brand & Wichers.....426
Brauer & Richter..... 426
Brown Mrs Robert.....425
Brown & Canfield.....424
Burns & Raynor.....423
Burrow J G.....426
Carman R W.... 431
Carmody J D..... 429
Catlin M R Co.....422
Chicago Floral Co.....427
Cook W C & Co. 427
Corbrey & McKellar...422
Deamud J B & Co.....422
De Lamater Iron Wks.429
Dillon J L.....431
Dreer H A... 424
Edwards S & Son.....427
Elliott W H.....422
Ellison Wm.... 423
Ely Z De Forest & Co..424
Felheim Lyman.....429
Felthousen J E.....426
Forstermann L 425
Gardening Co The.430 431
Gibson J C.....426
Goodyear Rubber Store 429
Graham Hugh.. 427
Griffith N S..... 421
Gurney Heater Co.....431
Hail Ass'n.....431
Hancock Geo 426
Harold J H..... 425
Hart James.....423
Hart Michael A.....423
Hart & Crouse.....432
Hartford H E.....425
Herr Albert M.....426
Hews A H & Co 430
Hilfinger Bros.....430
Hill E G & Co.....424
Hippard E.....431
Hitchings & Co.....433
Hooker H M Co.....431
Horan Edw C.....423
Huebner H.....421
Hulsebosch Bros 424
Hunt E H..... 423
Hunt M A..... 421 424
Hunter Frank D.....423
Huntington Seed Co...428
Jennings E B.....421
Joosten C H.....424
Kaufmann Ernst & Co.428
Kelsey Harlan P.....425
Kennicott Bros Co.....423
Koffman E 422
Krick W C.....428
Kroescbell Bros 431
Kuehn C A.....422
Kuhl Geo A. 422
La Roche & Stahl.....422
Lockland Lumber Co...430
Long Dan'l B.....422
Lonsdale Edwin....424 426
Lord & Burnham Co...432
McCarthy N F & Co....423
McFarland J H.....430
McFarland J H Co.....431
MacBean A S.....424
Manu Bros.....426
Manz J & Co.....429
Marschuetz & Co.....428
Meyer John C & Co ...431
Michel Plant & Bulb Co 424
Millang Bros.....423
Moffatt G J.....424
Moninger Jno C 432
Neff L I.....425
Niles Centre Floral Co.423
Oelschig A C.....425 429
Ouwerkerk P.....425
Pabst Theo & Co.....424
Parmenter Mfg Co.....430
Pennock C J.....426
Pennock Sam'l S.....422
Pierson F R Co.....421 424
Pittsburg Clay Mfg Co.430
Powell W S & Co.....429
Quaker City Mach Co..431
Randall A L 423
Reed Glass Co.....431
Reed & Keller.... 428
Reinberg Bros.....423
Roberts J H.....429
Roehrs Theo.....423
Rolker A & Sons.....428
Russell S J.....429
Sander & Co. 425
Scollay John A. 431
Scott Alex.....426
Sebire P & Sons.....421
Shelmire W R.....426
Sheridan W F.....423
Siebrecht & Wadley....425
Situations, wants.....420
Smith Nathan & Son....427
Spooner Wm H.....424
Streby S O 427
Struck J N & Bro.....431
Sunderbruch H L.....422
Sunset Seed & Plant Co424
Sutherland Geo A.....423
Swayne Edward.....426
Syracuse Pottery Co...430
Tricker Wm.... 421
Van Horne Griffen & Co 431
Vaughan J C.....420 427
Walz Fred S 427
Waterbury Rubber Co.429
Watson G C.....421
Weathered's Sons T W.432
Weeber & Don.....424
Welch Bros 423
Whilldin Pot Co 430
Whitton Stephen.....428
Wight W P..... 431
Williams & Pult.....425
Wittbold Geo.ge.....426
Wolf E E 431
Wood Bros.....425
Woodruff W B.....421
Young John..... ...423
Young Thos Jr.....422

GARDEN SCHOLARSHIPS of the Missouri Botanic Garden. A scholarship will be awarded prior to April next, applications for which must be received by March 1. The examination for all candidates will be held at the Botanic Garden, St. Louis, March 6 next. Application blanks and other information will be given on application to the director.

THE AMERICAN FLORIST and *Gardening* together to one address for $1.75. Send orders to the American Florist Co.

CYPRESS GREEN HOUSE MATERIAL

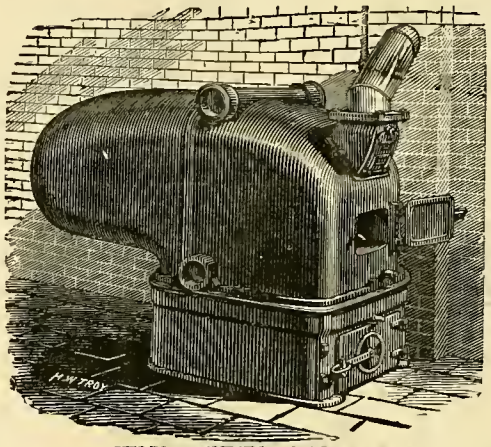


HOT BED VENTILATING SASH

JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

GREENHOUSE HEATING AND VENTILATING

Horticultural Architecture and Building.



HITCHINGS & CO.

Established 1844.

233 Mercer St., New York.

FIVE PATTERNS OF BOILERS.

NINETEEN SIZES.

Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc., of Iron Frame Construction, Erected complete, or the Structural Iron Work shipped ready for erection.

Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Top.

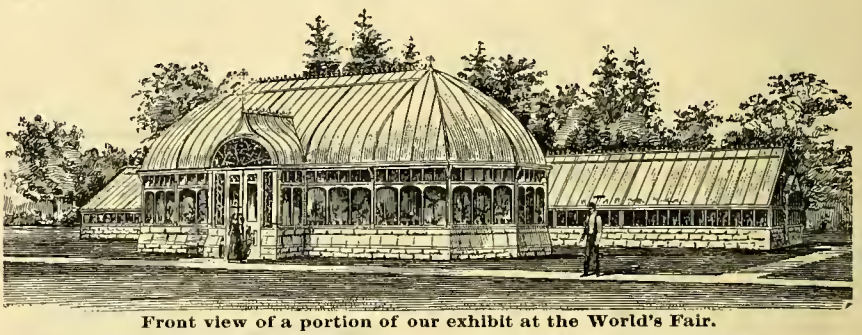
SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.

LORD & BURNHAM CO.

Horticultural Architects and Builders,

STEAM AND HOT WATER HEATING ENGINEERS.

☞ Plans and estimates furnished on application.



Front view of a portion of our exhibit at the World's Fair.

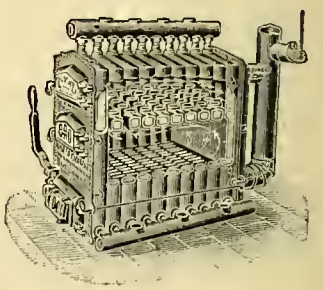
. . . *SEND FOUR CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.* . . .

LORD & BURNHAM CO., Irvington-on-Hudson, N. Y.

Mention American Florist.

ROYAL HEATERS

The right kind of Boiler in a greenhouse means success with flowers.



HART & CROUSE,

UTICA, N. Y.

THOS. W. WEATHERED'S SONS,

INCORPORATED.

Horticultural Architects and Hot Water Engineers

Send for Catalogue, enclosing 4 cents in stamps.

No. 244 Canal St., NEW YORK CITY.

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. IX. **CHICAGO AND NEW YORK, DECEMBER 14, 1893.** **No. 289**

THE AMERICAN FLORIST

Copyright 1893, by American Florist Company. Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.
322 Dearborn Street, Chicago.

Subscription, $1.00 a year. To Europe, $2.00.

Address all communications to

AMERICAN FLORIST COMPANY,
P. O. Drawer 164, CHICAGO.

Eastern Office: 67 Bromfield St., Boston.

SOCIETY OF AMERICAN FLORISTS.

WM. R. SMITH Washington, D. C., president; PROF. WM. TRELEASE, St. Louis, Mo., vice-president; WM. J. STEWART, 67 Bromfield St. Boston, Mass, secretary; M. A. HUNT, Terre Haute, Ind., treasurer.

The new officers, to be installed Jan. 1, 1894, are: J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; secretary and treasurer the same as for 1893. The next annual meeting will be held at Atlantic City, N. J., August, 1894.

CONTENTS.

Review of a flower show 433
Chrysanthemum basket (2 illus) 434
Carnations—Notes 434
—Rust 435
—Chester County notes 436
—Lady Emma and Portia 436
Chrysanthemums—Registering names. 436
—Seedlings and exhibitions 436
—Good Gracious! Princess? 438
—Insects on 438
Miscellaneous seasonable hints 438
Philadelphia 438
New York 439
Chicago 439
St. Louis 439
Boston 440
Toronto 440
Obituary—Thomas Tait 440
News notes 444 446
Insects affecting violets 448
St. Paul, Minn 450

NEWBURGH, N. Y.—On the evening of December 4 fire broke out in the propagating house of John Peattie's establishment on North Miller street, caused by a defective flue. Before it could be controlled damage to the extent of $1,000 to $1,500 was done. Partially insured.

CINCINNATI, O.—Prospects for Christmas trade are good. Roses of all kinds will be scarce in this market. There will be plenty of narcissus, Romans and valley, and a fair supply of carnations in all colors. Smilax, asparagus and ferns will be plentiful. General trade is now only fair.

ST. JOSEPH, Mo.—Our first chrysanthemum show was held November 7 to 10 in the hall of the Y. M. C. A. and under the auspices of that organization. The exhibitors included the majority of the florists of the city, and the display was very creditable for a first effort. Plans are already being considered for a better show next year.

Review of a Flower Show.

Our annual chrysanthemum shows are once more a thing of the past, their success or failure is a matter of history. Now after the heat of battle let us sit down a moment and calmly consider how far we have, by this our recent effort, profited by former experiences and what lessons have been taught us to apply in the future. We must cheerfully admit, if candid, that much can be learned yet, both in regard to management of shows as a whole and as individual participants. Many of us at the close of each successive exhibition are willing to admit that in many instances mistakes were made, and inwardly resolve to take the lesson to heart and guard against a repetition of the same errors in the future, and yet how apt we are to forget and do the same thing over again.

Of course differing conditions will have to be taken into account. Take for example the show held at Chicago this year, the peculiar circumstances which surrounded the same certainly made it unique and when we undertake to analyze it we do not wish to have it construed as a criticism. There were a number of obstacles in the way which seemed perfectly appalling. In spite of all obstacles the show opened promptly on Saturday noon as advertised and in as complete a state as most shows are at the opening hour.

It is all important that the first view of the visitor upon entering the hall of an exhibition should be an impressive one. A first impression is generally a lasting one, and we should always bear this in mind. A defect of this kind was painfully apparent on the opening day, when the rotunda of the building looked bare and empty, but the next day this defect was happily remedied by arranging a handsome group of palms for a center attraction.

Much has been said as regards decorations, some in its favor and some against it, some people holding the expense to be unnecessary and often detracting from the show itself. A great deal depends upon the rooms or hall as to what extent such decoration should be made. Let us consider the rooms or series of halls of this show. It can not be denied that a little money judiciously expended would have greatly added to the beauty of the show. The cost need not have been very great; let us say a dozen cases of southern smilax at a cost of about $6 a case. This would have filled the bill admirably. Another point that was brought out very clearly was the necessity of groups of decorative plants to set off the chrysanthemums. A defect of this kind, very apparent on the opening day, was rectified afterwards by the disinterested efforts of some of our public spirited brother florists. No premiums for anything of this kind were offered. Can we afford to ignore this matter in the future? [Mr. B. has overlooked the fact that had the show been held where originally intended there would have been an abundance of decorative plants to use, and therefore such premiums were deemed unnecessary in that case.—ED]

Another very important factor of an exhibition is music. In our opinion good music adds largely to the drawing power of a show, but we must be careful as to the kind of music we furnish. A large band of brass and wind instruments is very well in its place, but is not the kind of music to enjoy at a flower show. The noise is apt to drown all attempts at conversation within a radius of several hundred feet, and is rather more annoying than pleasing. A string orchestra, in size adapted to the space, would be much better.

But now let us mingle with the throng and listen to comments made by our visitors, for we are anxious to learn what pleases the public and to what extent our efforts for the advancement of floriculture are appreciated. Turning our attention to the chrysanthemum plants first we can not fail to notice that the groups of plants grown to single stem and bloom attract the most notice. The large and showy groups of bushy plants, though striking enough in their glow of color, are carelessly passed by. While they are admired by many and are indispensable in a show, yet it will be observed that these displays receive less attention than some others. Fine standards, beautiful single specimens, all receive their share of praise, but nevertheless those little single stemmed fellows are the ones that gather the admiring crowd.

The fine display of cut chrysanthemum blooms seems to have been fully appreciated by the public. The corridors and parts of the different halls where these were staged were always crowded. Every style of bloom came in for its share of admiration. "Chappie" yonder stares in undisguised admiration at a vase of magnificent Queens and secretly resolves to possess himself by force if necessary of the largest specimen in the collection for his boutonniere, while his lady love beside him looks, alas! in vain, for the dainty little pompon of former days. It seems a pity that most all of our old friends have disappeared. We will admit that many of them have been superseded by more meritorious sorts, still others have been discarded merely for lack of size. Yes, surely it is size, texture, depth of flower and shipping qualities that in our opinion constitute a first class chrysanthemum, and yet can we afford to ignore the fact, which will be apparent to any one who will take the trouble to observe, that the public will admire many sorts and types that would not pass muster with our modern judges. Take the instance of a vase of Snowball grown in sprays, which was shown in a general display of com-

mercial cut flowers. This vase was as much admired and commented upon probably as anything in the hall; this was doubtless more pronounced from the fact of its being almost the only one of its kind.

The most striking exhibits were those magnificent vases of 50 and 100 blooms of one color in a vase, especially those where the exhibitor confined himself to one variety. The result plainly showed that the mixing of two or more varieties in a vase of this kind is unwise and should be avoided. This appeared especially noticeable where both incurved and reflexed varieties were placed together. These remarks of course apply only to those classes that call for best of any given number of blooms of a certain color.

But speaking of vases of mums we may be allowed to say a word right here about a vase arranged for effect. In this class also the best results may be obtained by choosing only one, or at least but few, varieties. But if we judge these are we not apt to lay too much stress on quality and are we right in deciding that a certain vase does not compare favorably in this respect with some other by showing some blooms grown to sprays which might not possess the same commercial value and are yet indispensable in a first class arrangement. What, let us ask, do we mean by quality anyway?

For the first time in the history of our local shows there was a very creditable display of roses. Beauties in particular were fine. There is no doubt that this feature of a chrysanthemum exhibition is appreciated by the public, which is evidenced by the attention and favorable comments the rose tables received. It is rather difficult to bring out a fine display of roses at this season of the year. The rose is not at its best, and the rose grower takes little interest, for the amount in premiums offered is insignificant as compared to the mums. If we ever wish to draw out a full display of roses we will have to ofler better inducements in the shape of premiums. And what can be said of roses also may be applied to carnations. A premium of $3 for 50 blooms is but barely the retail price of these flowers, and we can not expect that growers will tumble over each other in the attempt to get in. It is but proper that in a chrysanthemum show the mums should take first place, but nevertheless if we attempt to run our shows for a full week we will have to provide different attractions after the first two days. A competition in rose baskets, chrysanthemum baskets, or vases, is well enough and fills in between days, but these hardly possess attraction enough to make a strong drawing card. By past experiences both table and mantel decorations have pre-eminently proved to be the greatest extra cards. The mantel decorations were omitted in this show, which fact was much regretted by many of our patrons, as was evidenced by the numerous inquiries as to when the contests in this class would take place.

That dinner table day was there in great shape and proved again, as in former seasons, one of the banner days as regards attendance. The amount in premiums offered was just double that of any ever offered before in this city, and no doubt this fact brought out the large number of contestants. Most all of the tables exhibited possessed many points of merit, and yet in fully one half of the entries we observe that the lessons which were taught us in former contests were disregarded or forgotten, and the tables overcrowded. The blame is too often laid upon the caterer who sets our table. Do not blame anybody but yourself if your table proves to be too small for your centerpiece and decorations. You ought to know that a round table nine feet in diameter is too small for twelve covers, and an oblong table three feet wide is too narrow to admit of a proper centerpiece without crowding on to the service. On the other hand we may go to the opposite extreme, and in order to have plenty of room for our display set a table large enough for eighteen or twenty people. Most of the centerpieces outside of the chrysanthemum tables, which latter were made a separate class, were low so as not to interfere with the line of vision across the table. This style seems to be the most popular, and is altogether the best suited for a table for twelve covers. Notwithstanding the fact that the table containing a tall vase of Beauties took first money a high centerpiece on a table of this kind seems to us a rather dangerous experiment. If we are aiming at an artistic effect it is bound to be a failure, for just so sure as we attempt to give a *finish* to our vase by drooping some of our flowers below the rim of the vase just so sure will we obstruct the view across the table and thus render it unfit for the purpose intended. And if we keep strictly within the lines of adaptability the result must necessarily be a very stiff arrangement unless you carry the vase so high as to appear ridiculous. When we sit at table we want to look *on* the flowers and not to crane our necks to look *up* at them. For this reason, if not on the point of effect alone, we claim that high centerpieces are least desirable. But enough of the tables. It is not our intention to criticise but only to point out some mistakes which might be avoided by a little timely thought.

Outside of these special attractions, if we may be allowed to call them such, there are others of much merit and interest to the visitor that are not to be overlooked in a flower show. We noticed two very fine displays of a general assortment of commercial varieties of cut blooms which received, as they well deserved, a great deal of favorable notice. These displays were not for competition, but we have no doubt that the enterprising men who put them up will be amply repaid for their expense and trouble by an increased business. Exhibits of this kind should be encouraged.

But don't let us forget the so-called amateur. One of the finest groups in the hall was that of Mr. Uihlein, of Chicago. This excellent exhibit, beautifully arranged and meritorious throughout, was admired by all, and let us hope he may find many imitators in the future.

And now, after the show is over and we are settling up our affairs, let us paste these few memorandums in our hat, for past experience has proved them to be very important. If we intend giving a show next fall let us issue our schedule not later than January next. Let us be very careful that the wording of our schedule is very explicit, and not to omit any important features. Let us make it plain, for instance, what we mean by a 24 inch basket, and try if we can to define the meaning of the word basket. Let us try to secure a suitable place for holding our exhibition in good season, and don't let us forget to arrange for proper means to decorate the same. If we contract for any goods or material let us have an understanding what the cost is to be. If we engage any help let it be thoroughly understood what each man's duties are to be and what compensation he or she is to receive for services thus rendered, and let the proper committee be responsible for the same. Don't expect one or two men to stand the whole burden of the show. To assure prompt action make your committees small. A "one man power" is preferable to an unwieldy body. B.

Chrysanthemum Basket.

We present in this issue front and back views of Mr. Hauswirth's winning basket of chrysanthemums at the Chicago show. The flowers used were superb specimens of the new yellow variety Eugene Dailledouze, and the arrangement was such as to convey the impression that the flowers were falling out of the basket, the idea being very cleverly carried out. Adiantum Farleyense, Asparagus plumosus and croton leaves were used for "other foliage." The croton leaves were an exceedingly effective addition, combining admirably with the chrysanthemums. The engravings do not come anywhere near doing justice to the basket, which was strikingly beautiful.



Carnation Notes.

Now is the time to take particular account of your carnations and see which are paying, which are not and where you have made any mistakes that can be rectified another season. This is the time you want fine flowers and lots of them. Christmas and Easter are the two times in a year that the grower can make a few dollars for himself, and if a carnation is no good for those two seasons it is no good at all.

There are some varieties that are very late in coming into bloom, not giving any flowers until the middle of January or February. It is certainly poor policy to take up valuable space for such sorts. There are others that come in crops and often unless handled properly will be off crop during the holidays; now these croppers, if you can get the crop at the right time, are very prolific and about as good pay as the majority. If you have missed it this season, study up where the mistake is and get there next time. The best of them all are those that start in early and bloom until late in a continuous crop; such varieties should now be in the best of health and full of buds.

A very good thing to do is to start in about the 15th of this month and keep an accurate account of the number you cut from each variety separately; do this daily until about the tenth of January and you will be able to see what is paying and what is not, and more than likely you will keep up the account system the season through. It pays more per minute than anything else you can do around a carnation establishment.

If you are consigning to a commission house make out a memorandum of each shipment as per following copy. It will make them a little extra work, but if they do not take enough interest in your welfare to do this much for you between the dates named about the best thing you can do is to drop them and deal with people who are willing to do what they can for their consignors.



FRONT VIEW OF FIRST PRIZE BASKET OF CHRYSANTHEMUMS AT THE CHICAGO SHOW, ARRANGED BY P. J. HAUSWIRTH.

This is the style of memoranda to put in with the flowers:

400 Daybreak.
1000 long McGowan.
300 short McGowan. Albert M. Herr,
600 Fred Dorner. Nov. 20, 1893.
300 Grace Darling. Train 2:15 p. m.

Have your commission man make his returns as follows:

400 Daybreak at	.02	—$ 8.00	
1000 long McGowan at	.01	— 10.00	
300 short McGowan at	.0075	— 2.25	Albert M. Herr.
600 Fred Dorner at	.02	— 12.00	Nov. 20, 1893.
300 Grace Darling at	.01	— 3.00	Train 2:15 p. m.
2600 Carnations			
		$35.25, less Com. $29.97	

Carefully file these memoranda and returns and before you begin laying in stock for next season look them over carefully and you will find some that you want to drop out; there is nothing so convincing as to have down in black and white the amount in dollars and cents a certain variety is worth to you. There are too many good varieties on the market for us to take up our room and waste our time on anything that is not up to the mark in every respect, and it is impossible for us to take anyone's word as to what is a good one and what is not, for what is good with one grower may be comparatively worthless with another. Of course there are some sorts that are worthless almost everywhere, but when we get among fairly good ones it is only by experiment that we can tell which are the ones for us to handle.

ALBERT M. HERR.

Carnation Rust.

Questions are asked through the mails and otherwise for a quick and effective remedy for this trouble. It is not easy to suggest one that will effect a cure, because when a plant is observed to be rusted it is too far gone to be cured. It therefore follows that preventive measures may be the ones to be resorted to in the first place. Every precaution should be taken to keep the rust entirely off of the place. If the grower has clean plants, those that are entirely free from the rust, and propagates from them, the only opportunity there is for the advent of the rust is either by the spores coming from infested plants grown by neighbors or elsewhere. Those spores are minute, invisible and may come on the wings of the wind. One should be very careful in the purchase of plants from other growers. As far as practicable he ought to be satisfied that the plants do not have within them the germs of the rust disease.

You see from the above that the rust may come of its own accord. Its sudden appearance in a greenhouse does not necessarily mean that it came with plants that have been recently purchased, particularly if it appears upon old plants and no signs of it are upon those recently introduced. If on the other hand the new plants show quite uniformly the rust and the old do not, the conclusion is a natural one that the new plants have brought the disease with them.

It is possible to treat the plants so that the spread of the rust disease may be to some degree checked. This comes from the fact that the spores may be destroyed by a fungicide, either in the place where they are produced in great quantities on the surface of the infested plants or upon the surface of the healthy plants, where they have been carried by wind or water or other agencies. Therefore there is hope in the use of a mixture like the Bordeaux or the ammoniacal solution of carbonate of copper.

Several conditions of things may be supposed for the present purpose. In the

first place a large carnation house with but a single plant infested with the rust—in such an instance it would seem best to first speedily remove that rusted plant. It may have given off multitudes of spores before the disease was noticed, and a thorough spraying of the house with the Bordeaux mixture will be quite apt to prevent the germination and further development of the rust in the healthy plants. Again we may suppose that there are a hundred plants affected with the rust; the same rule should hold good here, providing these plants are badly infested. Or, it is possible that a plant may have recently become diseased, and it has developed rapidly in some one leaf or portion of the plant. Should this be so it might be wise to simply remove the rusted portions, cutting well below where the rust has appeared, also spraying the whole house with the fungicide. If the rust is within the house it would seem wise not to propagate from any plants in that house, or otherwise the disease will be apt to go with the cuttings and appear possibly in worse forms in the new plants made thereby.

It goes without saying, particularly to the carnation growers who have had any experience with this disease, that the genuine rust of the carnation is a serious malady and must be met with heroic treatment, not left to increase in force.

BYRON D. HALSTED.

Chester County (Pa.) Notes.

Carnations are a little late all through this section this year. As a rule the plants are looking good and the "spot" is being kept well in check. Most of the growers are deep in the seedling craze, which if it does not result in much profit certainly furnishes lots of fun. The average result from seed shows a remarkable advance over that of recent years. One grower has a bench of 600 seedlings out of which but one single flowered variety has appeared. A noticeable fact is the very small proportion of whites and crimsons among them.

Cæsar still continues to be the favorite maternal parent with the Chester county hybridizers. The sovereign remedy advanced for defects or weakness in any variety is "cross it with Cæsar." The great desideratum appears still to be a yellow that will beat Buttercup, but it does not yet appear. The variety Golden Gate has proved to be very prolific in yellow progeny.

W. R. Shelmire has a distinct and very promising variety which might be classed as a picotee. It is pale yellow with a narrow but well defined pink edging to all the petals. Lamborn is regarded here as well as generally throughout this section the best white. Edelweiss, which is a white sport from Chester Pride, is also doing well. Mr. Shelmire states that he has seen no sign of rust this season excepting on a few seedlings, which were immediately burned.

Mrs. Starr's is still the "home of the Buttercup." One of the most satisfactory whites here is Louis J. Haettel, and the best crimson is J. R. Freeman. Perhaps the best appearing dark crimson in the county is Black Beauty at Isaac Larkin's. It is a seedling of Mr. Larkin's sent out last season.

Edward Swayne can scarcely eat or sleep all for love of his two new pink varieties, Sweetbrier and Ophelia. They are selling well in the Philadelphia market and will be popular. Mr. Swayne has been unable to do anything with Marie Louise violet for several years. This season he has put in Lady Campbell and it is doing splendidly, showing not the slightest trace of disease.

Wm. Swayne has a house of Lizzie McGowan which would be hard to beat. Thos. Cartledge is also very handsome here. For fumigating Mr. Swayne states that he uses the sweepings from a snuff mill, which he finds much more effectual every way than tobacco stems.

C. J. Pennock is in poor health and confined to his house at present. The many friends of the genial secretary of the Carnation Society will all wish him a speedy recovery. His houses are in the pink of condition. Among the seedlings are some that will make a mark if they show up as well on the second year as the first. One bright scarlet looks as though it might be the long sought large flowered Portia. Sweet peas are just showing bud at Mr. Pennock's.

Chambers Bros. and J. H. Ladley are more or less involved in the seedling business. Mr. Ladley has several which give good promise for the future. Up to the present time it has been a very difficult matter to tell the Chambers brothers apart. But three weeks ago Joe got married, and he already begins to wear a different look and can now be readily identified.

Lady Emma and Portia.

I agree with Mr. Lonsdale regarding the above carnations. We used to grow Lady Emma about eight years ago and I believe today it was the best red carnation we had up to date, when in a healthy condition. A free bloomer, bright color, large flower and all long stems. But we could not keep the disease from it then. May be we could now. Two years ago I saw Lady Emma advertised in the FLORIST by a New Jersey firm and I ordered 200 rooted cuttings. But when the plants came to maturity I could see no difference between them and my Portias. I wrote the firm about it and they replied that if I would attend the Pittsburg convention of the Carnation Society they would show me the difference between their Lady Emma and Portia, but I did not attend the convention. I am very glad that Mr. Lonsdale has brought the matter before the trade for discussion.

A. SCHMITT.

Glenville, O.

[We had our first glimpse of Lady Emma about 10 years ago in Gordon Park, but a short distance from Mr. Schmitt's establishment. A bed about ten feet in diameter had been planted with this variety and it was a splendid sight, one that we have never forgotten. We examined these plants with much interest and both plants and flowers were quite distinct from the variety Portia, with which we have since become familiar. Mr. Schmitt probably secured his stock from the above or from the same source. The recollection of the bed above noted calls to mind the fact that the possibilities of the carnation as a bedding plant have been sadly overlooked. If florists would plant such beds of carnations (one variety in a bed) where they could be seen by customers, orders in abundance would surely follow.—ED.]

WHEN SENDING us newspapers containing items you wish us to note please do not fail to distinctly mark the item so it can be easily found, as we can not spare the time to hunt through the mass of papers sent us for unmarked items.



Registering Names.

The registration of the names of the new chrysanthemums to prevent their being duplicated and thus obviate confusion, which would likely occur, is of too great importance to be neglected. We have a very extended list now in use and this is being so rapidly increased each year that any neglect on the part of the disseminators in this matter will soon bring about a state of chaos.

The following names have been registered since the August meeting of the Chrysanthemum Society of America: Esther Cleveland, Erato, Hiawatha, Eureka, Brick Top, Polyphemus, Monte Vista, Cascade, Nisus, Endymion, Orange Judd, Minnehaha, Proserpine, J. J. B. Hatfield, Mrs. E. H. Hunt, Clinton Chalfant, Mrs. E. G. Hill, Eugene Dailledouze, Challenge, Inter-Ocean, Beau Ideal, Major Bonnaffon, Oriana, Laredo, Pompadour, Miss Hattie Bailey, Iora, Nyanza, Ursino and Durango.

I notice some of the seedlings have been shown under names which if adhered to will be duplicates. I merely allude to this to impress upon those who are interested in their pets the importance of early registration, thereby avoiding any complications.

ELMER D. SMITH,
Sec'y National Chrysanthemum Society of America, Adrian, Mich.

Seedling Chrysanthemums and Exhibitions.

The question arises, how are we to sift out the chaff and get at the golden grain? How are we to know which are desirable additions, and which are either almost duplicates of existing varieties or inferior to those already in commerce? If the truth respecting the new comers is to be arrived at, then we will have of necessity to change our present methods and raise our class schedules. Personally the writer does not think the task a difficult one, and believing this, the following is offered for consideration:

Let the judging be done under the auspices of the National Chrysanthemum Society of America, or if thought advisable, let the different florists' clubs appoint delegates to decide the manner, time and place, when, how and where the seedlings shall be judged. We never can arrive at definite conclusions as to the merit of new chrysanthemums until a system is devised whereby they can all be brought together and judged relatively. If, say seedlings are exhibited at Boston and Indianapolis and not shown at some central place, it is simply impossible to tell which is best; if, say some central place, as Buffalo or Pittsburg, were selected then it would be possible to gather all together and have a competitive examination that ought to result in great good to all interested in the future of the chrysanthemum. It would seem as if the show or city securing such an exhibit could well afford to provide a portion of the premiums or other expenses incident to the contest in view of the additional interest



BACK VIEW OF FIRST PRIZE BASKET OF CHRYSANTHEMUMS AT THE CHICAGO SHOW, ARRANGED BY P. J. HAUSWIRTH.

accruing to the exhibit where the national contest occurs. There would be but little trouble in providing the necessary funds, as several gentlemen interested in the chrysanthemum have signified a willingness to contribute if some such thorough and general contest could be had. It might be advisable to exact of the competitor a sum for each variety listed or entered for competition; this would have the effect of keeping out rubbish and would furnish funds to cover a portion, if not all, of the premiums. It might be necessary to have two dates for such a contest, one for the earlier varieties and one for the late sorts. The art of packing is so thoroughly understood now that blooms shipped to the seaboard cities would carry well, and vice versa from east to the west. Then let the club or exhibition committee offering the best inducements have the honor of the exhibit. But of over one hundred varieties introduced last year—and last year was an exceptional year for high class seedlings—how many stood the test? Certainly not more than fifteen or sixteen. We might mention the three whites, The Queen, Niveus, W. G. Newett; and Mrs. Craige Lippincott, Brydon, Jr., Mrs. F. L. Ames and Henry Sunderbruch among yellows; Pres. Smith, Maud Dean and W. N. Rudd, pinks; Rob't McInnes and Andes in the bronze section, with Mrs J. W. Crouch, Louise Sievers, Joey Hill and Mabel Simpkins in the miscellaneous colors and classes. Undoubtedly the two varities exhibiting the greatest advance were respectively The Queen and Robt. McInnes. The first is an ideal white, the last the very perfection of a high class bronze. What then was the use of the 80 and odd varieties which do not measure up? To find this out at the expense of the purchaser is wrong in principle and will tend to bring into ill repute all new varieties.

There should be classes for commercial varieties, i. e., those that come nearest the ideal of what the retail florist wishes for selling over the counter. This class scarcely goes outside of the white, yellow and so-called pink for a variety; perhaps a crimson might be considered.

Exhibition varieties for making grand displays at the shows—those are necessary now and should have a class by themselves. To be sure commercial varieties will also do for this section, but often a large, fine, distinct flower would be voted nil because the color did not come up to commercial requirements.

A class should also be made for the incurving Chinese type and it would be well if this class were given more attention in this country on account of their symmetry and usual fine finish and form. What chance does a finely formed seedling of the Mrs. Rob't Craig or Madeira type stand against their larger rivals the Japanese.

The chrysanthemum has come to stay; exhibitions are an assured fact; let us do our utmost to place not only the flower, but the exhibitions, on the highest plane possible. The rose men will have to kick; it will do no good; the chrysanthemum has paved the way for exploiting, not

only her own charms, but has furnished audiences for the rose, carnation and orchid. Personally I have greater interests in the rose and carnation than I have in the chrysanthemum, but I trust I have more sense than to give way to the senseless talk about downing the chrysanthemum. Such talk only shows a man's one sidedness and is all bosh. If the rose men want to give great rose exhibitions and entertain and interest the people, why, I am with them, but to attempt to dethrone the chrysanthemum and minimize her influence and charms in order to exalt the rose, then I say no!

The chrysanthemum has an organization to look after its particular interests, the carnation enthusiasts have a well equipped society, but the rose, the dearest, sweetest, most beautiful of all flowers, has not an organized society to watch over and care for her interest; until such time and until exhibitions are held in her honor let no one talk about doing away with the chrysanthemum. The rose has made a thousand times more money for its votaries and growers and yet there is not zeal or interest enough manifest to protect her queenly being. E. G. H.

Good Gracious! Princess?

As a rule I am careful not to make any statement that is not the result of my personal observation and experience. Here is my detailed experience as to the two chrysanthemums in question.

Grown to single stem Princess of Chrysanthemums with me always has a crook neck, with the flower produced side ways and a less decided flesh tint than Good Gracious, The flower is rather more compactly incurved. These are certainly points of difference and well marked as grown side by side. The only exception to the above was one that sported to white, which had a less formal arrangement of petals, flower erect, the stem being stiff in the neck. I have retained it to try another season. "Sports" have to be well tested before claims can be entered for individual merit.

Good Gracious under the same conditions *always* has a stiff stem, flower erect, much more loosely incurved and the longer, lower petals reflexing to the stem. This the Princess does not do according to my experience. Good Gracious is a good seller over the counter, bringing as much again as most of the other sorts, while Princess did not take at all on account of "curvature of the spine." I do not believe the case in point is as V. H. Hallock versus Dawn.

GROVE P. RAWSON.

Insects on Chrysanthemums.

ED. AM. FLORIST:—The insects mentioned in the letter of Mr. Waldie were not found on the plant. The package contained some chrysanthemum leaves which appeared as though damaged by the red spider. The box was crushed and if there were any active insects in it they probably escaped on the journey. It is impossible from Mr. Waldie's description to surmise the species. If he will send other specimens it will give me pleasure to examine them and report.

C. V. RILEY, Entomologist.

Washington.

[Will Mr. Waldie please send new specimens direct to Prof. C. V. Riley, Washington, D. C., packing as carefully as possible.—ED.]

Miscellaneous Seasonable Hints.

Don't delay in getting some good strains of cyclamen and sow about New Years. Plants from these seeds, if kept growing right along as they should be and not starved for want of root room, will make fine plants for a 5 or 6-inch pot the following winter. The type known as C. persicum grandiflorum is much better than C. p. giganteum. Cover the seeds one-eighth of an inch with light soil and place in a temperature of 60°. There is as good a demand for a good pot of cyclamen this winter as ever. They are always a good house plant.

If you grow a few orchids, as I do, as soon as well open move such sorts as Cattleya Trianæ and Lælia autumnalis into a cooler house and they will last much longer. You can keep Cypripedium insigne a long time in a cool, shady house. If your Dendrobium Wardianum and nobile have ripened their bulbs as they should and are resting in a cool house, don't leave them all to come in at the same time. Bring a few at a time into a night temperature of 60° or 65° and you will have a succession of flowers.

Don't delay now (as severe weather is here) to cover your beds of tulips, narcissus, etc., with two or three inches of long stable manure, and a little extra on the Roman hyacinths. If the earth on the beds is frozen an inch or two, so much the better; it stops the tulips from shooting up 5 or 6 inches long before they are brought in to force, which they are likely to do if kept too warm, and then when forced they have an awkward "flop" on them.

Before the end of the month bring in a large lot of the leading tulips and Von Sion narcissus, for at that time they force well and the demand from the middle to end of January is at its best.

Don't keep your freesias in too warm a house. A good light bench and a night temperature of 45° will flower them finely, and in these conditions the flower will be well above the foliage.

If you do a general business it is most likely that at this date all hands and the cook will be busy with Christmas greens, holly, etc., and the shifting of plants and other greenhouse operations will be temporarily suspended; but it isn't too soon to think about shifting your earliest struck geraniums from 2 to 3-inch pots. The plants will need to be spread to make good sturdy growth and they might as well have the benefit of the larger pot. There is always some stock disposed of at the holidays, which gives you the necessary room to spread out such young stock as geraniums. Don't let one man do this potting alone. It breaks him up to have to stop potting and carry away a flat of plants. Let two men stand and do the shifting and give them a good lad to do the running. I am sure with this team you will get as much done as four men would do in the same time with every man acting as his own boy.

As soon as poinsettias are cut and sold put the plants away in a warm dry shed, or better, under a dry bench, and they won't trouble you any more until the first of April.

That very fine yellow midwinter plant, Linum trigynum, is in some places rather early for Christmas. Its flowers hang on about one week. Keep it cool and the flowers will be all the better, and it needs plenty of sharp syringing when not in flower to keep down red spider. This pretty plant is not yet generally grown, but it sells well. It will propagate any time you can get good young growths. After flowering cut back and the young breaks can be propagated. Plant out of doors end of May and lift in September. During its summer growth it needs plenty of pinching to keep it symmetrical. It lifts well if kept shaded for a few days and syringed. WM. SCOTT.

Buffalo, Dec. 11.

Philadelphia.

The December meeting of the Florists' Club Tuesday evening, Dec. 5, while not largely attended, owing to very disagreeable weather, proved very interesting to those present. Edwin Lonsdale graced the chair for the first time, assuming his duties as president.

After the regular business of the meeting was transacted, there being no essay ready, President Lonsdale was called on and gave an account of his western trip. He said that he was much pleased and surprised with what he saw. There were many features of the show that were new to him and he thought some of them should be introduced in the eastern exhibitions. One was that there was something for the judges to do every day, some new exhibits to be judged; this served to keep up the interest and gave the reporters something to talk about. Another was that a committee was on hand whose business it was to remove all faded flowers so that at all times the exhibits presented a bright, fresh appearance. He said that in this respect he had never seen flowers of all kinds keep like they did at that show; carnations, roses and other like perishable flowers, which are rarely presentable after the first day at our show, looked fairly well after two or even three days and some remained the full week and were even then in a presentable condition. He attributed this to the fact that there was no gas nor ever had been any in the building; that the lighting was all done by electricity and that the exhibits were not in one large room, but in a number of smaller ones and were not so affected by draughts.

While the chrysanthemum plants exhibited did not amount to much and were not as good as found in eastern shows, the cut blooms were as fine as any he had seen anywhere, if not better. He particularly praised Inter Ocean, Major Bonnaffon, The Queen and Eugene Dailledouze. He said the special features, such as the vases arranged for effect, the decorated dinner tables, etc., were very fine, and showed that our western brethren were fully up to the times.

A letter from Mr. C. B. Whitnall of Milwaukee was read by Robert Kift; it was in reference to the Wisconsin Flower Exchange, asking co-operation with Philadelphia brethren for their joint benefit. There was considerable discussion and everybody thought it would be lovely, but as such expressions about the market project are always to be heard every time it is broached, there was nothing new elicited. Mr. Lonsdale said that he was in the Wisconsin Exchange and that it seemed to be in a very flourishing condition and was giving a great benefit to the trade. He also spoke of the Chicago exchange, which he believed had recently declared a dividend. Mr. Watson spoke of being in Boston a short time ago, and said that the exchange there, although only having enjoyed a short existence, had just declared a dividend of 40%.

It seems singular that the growers of Philadelphia, who are so alive to the best interests of the business in all that pertains to the production of good stock, should be so blind in this respect; when will the scales fall from their eyes?

There was also a discussion as to the best fuel, and the concensus of opinion seemed to give preference to pea or buckwheat grades of coal.

The entertainment and other matters concerning the meeting of the National Society next summer were discussed and the January meeting is to be given over to this subject.

Business has been good the past week, with a fair demand for choice flowers. Prices are better, $3 now being asked for all the small teas, while 6 to 8 is the price for the larger varieties, with a few Kaiserin at 10. Beauties and Belles are in good demand at from 20 to 30. There are from 25 to 50 per cent more of these roses about than last year, but at times the demand is greater than the supply, and this in the face of the "industrial depression."

John Burton stole a march on the boys and sent in some very nice Brunners on the 5th; for the season of the year they are very fine stock. He is also cutting some extra fine carnations from plants that were grown on the benches inside all summer. His Grace Battles are the best pink carnations seen in this market for a long time, and we question if such stock has been equalled here before.

Mr. Lonsdale is sending in some No. 1 stock of his new carnation Helen Keller; they are grand flowers and attract attention wherever shown; it is as large a bloom as any we have seen and has a particularly short calyx, which enables the flower to fully expand; the stem is very stout and strong.

Mr. Harris has a gem in his new seedling chrysanthemum which he has named Mrs. Thos. Cartledge. It was not ready to cut until December 6, so it will help to extend the season. The flower is simply perfect, being the purest white, and in shape and size an almost exact reproduction of his yellow variety Eva Hoyt. Such a flower will never go begging for want of customers.

The Brown bowling team was knocked to smithereens last Thursday night. Kennedy of the Crawford team made an average of 195 in three games and G. Craig of same team an average of 181. W. J. Baker and C. Longinette are to captain two teams in the next match. Charlie is a champion rooter and when he lifts up both hands and lets his melodious voice out he can be heard something over a mile; it won't be his fault if his team doesn't win. K.

New York.

The Florist Club had a very interesting meeting on Monday evening at the pleasant headquarters in the Industrial Building.

Mr. Keller read his final report as chairman of the exhibition committee. He said that the results of the recent chrysanthemum show demonstrated that the Industrial Building was a good place for such shows, and predicted increasing patronage by the public in the future. In reviewing the exhibits and premiums he asserted that the displays of cut flowers had not been excelled anywhere and alluded to the difficulty in producing seedlings superior to the grand kinds now existing. The competitions in decorative work had been all that could be desired in quality, if not in quantity. He extended the thanks of the committee to Mr. Mestaniz and his associates for their liberality, to the judges for the conscientious manner in which they performed their duties, to the exhibitors for their punctuality in staging and to the donors of special premiums.

The committee on annual dinner announced that the dinner would take place on January 6 at the Arena at 6:30 p. m.

After listening to the report of the committee appointed to confer with the Madison Square Garden Co. regarding unsettled claims held by the club against that company, the club voted that the committee use any means in their power to collect the amount regarded as due the club.

The election of officers was then proceeded with and all the nominees unanimously elected as follows: P. O'Mara, Pres.; Ernst Asmus, Vice-Pres.; John Young, Sec'y; C. B. Weathered, Treas.; John Morris, chairman trustees.

It was also voted that the secretary be allowed a salary for his services.

Mr. Mestaniz being called upon outlined a proposed plan for a grand roof garden and palm house which is to be constructed upon the roof of the Industrial Building, and asking the co-operation and assistance of the club. The contemplated improvement will cost about one hundred thousand dollars and will give stage and restaurant accommodations sufficient to entertain many thousand people at a time. After a free discussion Messrs. Julius Roehrs, Weathered, McCrowe, Forsterman and May were appointed a committee to confer with the management and report at the next meeting.

Among those present were Secretary Farson of the Pennsylvania Horticultural Society and Benj. Grey of Boston, both of whom being called upon made neat little speeches. Mr. Farson was in his accustomed merry mood and kept his audience in a fit of laughter, as usual.

After adjournment the club visited the World's Fair exhibition which is in progress in the building, by invitation of the management.

Julius Roehrs has been informed that he had been awarded a silver medal for specimen chrysanthemum blooms at Hamburg, Germany, which he had sent over in care of Mr. Seyderhelm.

Some New York florists are, and there are some who profess to be, as good judges of trotting stock as they are of roses and chrysanthemums, and any claims on behalf of a piece of horseflesh by its owner are sure to be promptly met by rivals who are prepared to dispute these claims and back up their own to the extent of risking a few dollars or a good dinner on the result of a test. Others of the fraternity who happen to be present when such controversies occur can always be called upon to incite and encourage a trial of conclusions, the privilege of "holding the stakes" and being counted in on the dinner being a sufficient inducement. This explains how it came about that Mr. A. J. Vreeland of Jersey City and Mr. Wm. Traendly of New York, the former possessed of an uncertain looking little grey and an unlimited stock of bravado, the latter behind a sleek brown, and a party of half a dozen of the boys in rigs of more or less pretentious appearance were all gathered together at a hotel on the outskirts of the town one recent afternoon. Suffice it to say that the race came off in regulation style and Mr. Vreeland was very badly left, the unanimous verdict being that this gentleman was a splendid judge of some things, but not of horses. The dinner was a good one, and the boys are watching for another such lucky chance.

Much dissatisfaction is expressed in retail flower circles over the edict of the manager of the Metropolitan Opera House prohibiting the passing of flowers in any form over the footlights at the performances.

Chicago.

Mr. Edgar Sanders has been confined to his home for some time with a very serious attack of inflammation of the bowels. His life was at one time considered in danger, but at last report he was improving though still confined to his bed.

Trade is a little quieter this week, many of the retailers complaining of the prevailing dullness. Shipping orders, however, are up to the average. A moderate quantity of Christmas orders are already placed, but many buyers outside are inclined to be cautious, and are holding off until they know something of the prices likely to prevail. It is not expected, however, that very high prices will rule, though they will no doubt advance in another week. There is sure to be a better supply of carnations, for example, than there was last year, but these flowers are not very plentiful just now, good colored ones especially being quite scarce, and prices continue good. Beauties are scarce, and first quality stays at $3 a dozen. Some extra fine Meteors are in; they sell sooner than any other red rose, and stay at $6 to $7 per hundred. Testout are bought quickly, but few are coming in; they and La France are worth $6. Albany brings the same, and is good. Mermet is often pale and ranks below Bridesmaid. Light colored roses, as a whole, sell very slowly, particularly Perle, which continues to be a glut. So far throughout this season Perle has been one of the poorest selling roses sent in, though most of this variety now in the market are of excellent quality.

Violets are still scarce and keep at $1.50 to $2 for the best. The supply is far below the demand; it is one of the best selling flowers sent in. Good valley holds up to $5, but there is quite a lot sold for $4. Romans continue a glut, and as some of the growers are trying to hold their crops back for the holidays it is likely to be very plentiful then. Harrisii and callas continue to improve. There is any quantity of smilax to be had, and nobody wants it; it seems as if people won't use it at all. Asparagus is selling more freely this season than any previous time.

Orders for Christmas greens are reported as brisk, though holly and mistletoe are not seen around yet. Laurel wreaths are being sold for cemetery work and since the advent of frost has given a bronze tint to the galax leaves they go better, being fine for cemetery work.

Mr. H. Weber, Oakland, Md., was in town this week.

Herman Matti has leased a place at Rogers Park, Ill., and will grow cut flowers for the Chicago market.

Alfred Dimmock, of St. Albans, England, is in Chicago attending to the removal of the F. Sander & Co. exhibit at the World's Fair.

Quite a little comment has been caused by the appearance of a flower counter in one of our high class dry goods stores. It is under the charge of a Greek, but it looks as if the store was interested in it, as we see the sign "Flowers delivered to any part of the city." They were selling all sorts of roses except Beauties at 25 cents a dozen.

St. Louis.

Trade still continues fair. The warmer weather prevailing has slackened up the demand somewhat, it not being quite as good as last week. It may still be looked

upon as somewhat spasmodical, the principal work being funeral orders. The prospects for Christmas trade are good, although it is doubtful whether anything like prices prevailing during the past two seasons can be realized.

The first series of games between the three teams composing the bowling club was finished on the 6th. Team No. 1, consisting of J. J. Benecke, C. A. Kuehn, E. Schray, John Young, C. Roeper and C. C. Sanders, takes first place with an average of 1,026 pins per game. Teams No. 3 and 2 take second and third place with averages of 977 and 969 pins per game. No. 1's victory is due more to the fact that its members are regular attenders rather than better bowlers, as both the other teams have been handicapped by having to accept 100 pins per game several times owing to members not being present. The medal for highest individual score goes to Will Young with a score of 277, and for highest average to C. A. Kuehn, whose average is 187 pins for 12 games. There will be a slight change in the teams for the coming series owing to the substitutes being put on the teams permanently in place of members who can not attend regularly, and much improvement is expected during the next series.

The greenhouses of Thos. E. Carroll, located just west of the city, were damaged by fire on the night of December 1, resulting it is supposed from an overheated flue. They caught at the end of the houses and before the fire was extinguished it had consumed about ten feet of the end. The houses are connected, having no partition walls, and all the stock was damaged to some extent, mostly by smoke. The loss will be considerable as it caught some Christmas stock. A bench of adiantum 100 feet long and just ready to cut had the fronds all ruined; the plants are alive, however, and are starting to break up again. Some smilax and carnations were also destroyed by smoke, while a fine bench of Daybreak was frozen before repairs could be made.

At the upper ends of the houses where the damage was not so marked he is cutting some fine Fred Dorners and Mme. Albertini; these are classed as about the best of their colors. Daybreak also was in fine shape, and these three varieties will be planted heavily next season. Tidal Wave was in good shape, but Mr. Carroll thinks its time is about past. Fred Creighton is being tested, and from its behavior so far is very much liked. All the stock here is looking clean and healthy and shows where most of the winning carnations at the St. Louis show came from.

There have been several new stores opened recently, the latest being one called Elleard's and located on Olive street, between 5th and 6th.

Alex Waldbart, who has been confined to the house for some time past owing to severe illness, is reported to be improving slowly. R. F. T.

Boston.

The Co-operative Growers' Association appears to be prospering. The headquarters on Park street is a very lively place from 6 to 8 o'clock in the morning. Few people had any conception of the number of small growers bringing flowers to the city daily until this common meeting place furnished the opportunity of seeing them all together. There being no restrictions in the association to the contrary many of the members still make regular calls at the retail stores and supply them in the old fashioned way, so "peddling" is by no means out of date yet. The small buyers from suburban towns and the street fakirs are both good customers at the exchange. These latter gentry are a mighty shrewd set and are quick to take full advantage of every opportunity that can be turned to account. Formerly the doors of the market were closed regularly at 8 a. m. Recently it has been decided to keep the place open all day, goods unsold at a certain hour being left in charge of Mr. John Walsh, the manager, for disposition during the day. This plan had not been long in operation before the fakirs ceased to be buyers in the early morning, and it soon became evident that they were acting in concert with the object of making better bargains on accumulated stock later in the day.

A company has been formed in Boston for the purpose of transplanting large trees. Improved machinery for the prosecution of this work successfully is controlled by the company, and it is claimed that trees with from six to twenty inches of trunk diameter can be transplanted without risk at almost any season of the year.

Toronto.

Trade during the last week has improved remarkably both in cut stuff and plants. Two or three florists report good sales of palms. Chrysanthemums are still to be seen in every store, but their day is over and their glory is a thing of the past. People are beginning to get into a Christmas state of mind now and are more inclined to open their hearts and loosen their purse strings.

The seedling chrysanthemum (No. 101) exhibited at the late show here by Mr. Ewald A. Suder, of Toledo, O., which was awarded a certificate of merit and the cup for the best seedling shown, has been named "Nemo." The stock has been purchased by Messrs. Nathan Smith & Son, Adrian, Mich., who will disseminate it. Seedling No. 231, exhibited by Messrs. Pitcher & Manda, also awarded a certificate of merit, has with their kind permission been named "Mrs. A. H. Ewing." Both these seedlings are very fine and will be heard from again next year.

The certificates of merit awarded for seedling chrysanthemums and carnations were sent to the respective winners of them this week. They are very prettily gotten up and will look well framed and hung up in offices.

Thanks, "W. S.," of Buffalo, for your complimentary note in FLORIST, page 396. The Toronto boys thoroughly appreciate it and the source from whence it comes.

The next meeting of the Gardeners' and Florists' Association will be that set for nomination and election of officers. It does not give the prophets a chance at all now that these two operations are performed the same night; canvassing for votes is a thing of the past and the future rulers of the destinies of the association remain in comparative obscurity until proclaimed by the voice of the ballot.

Although sundry malcontents have held two meetings (it is not likely they can get a quorum for the third) the association is morally stronger than ever at the present time; it has no doubt lost strength numerically lately, but those remaining can well afford to wait until the lost sheep get over their dissatisfaction and return to the fold, which they will inevitably have to do if they want to keep in the swim. As I have had occasion to remark before, "There is nothing succeeds like success." The association has just held a successful show, it has promises of substantial backing from prominent citizens and it feels good over this; it will hold its annual banquet shortly and will doubtless feel still better after that. "Unity is strength," and much more can be done by working altogether than by each dissatisfied one airing his little twopenny ha'penny grievances before a little twopenny ha'penny meeting of kickers. If there are grievances and things to be set right—and I have no doubt there are—why not bring them up before the whole crowd and endeavor to set them right. Let us have a little common sense. E.

Thomas Tait.

Thomas Tait died at his home, Port Richmond, Staten Island, November 30, 1893, aged 70 years.

He was born near Kelso, Scotland, and served a regular apprenticeship to gardening: after that he spent several years in the Experimental Gardens, Edinburgh, along with many of the noted gardeners of that time, also at several places in England. He came to this country in the year 1852 and had charge of some of the best private places at that time. Thirty years ago he started business on Staten Island and was in active duty up to the time of his death.

He was an enthusiast in his chosen profession, a member of the old New York Horticultural Society, and one of the first members of the Florist Club, was a frequent exhibitor at the flower shows and a well known authority on nomenclature. A man of sterling integrity, his word was his bond, he had no enemies.

His funeral was attended by many of his old friends. He leaves an invalid widow but no children. H.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—As seedsman or bookkeeper Al references. SEEDS, care American Florist.

SITUATION WANTED—In private or commercial place; have 8 years' experience; American, age 30. Good references. Address E E. care Am. Florist.

SITUATION WANTED—At once, by a good cut flower and plant grower. Married, small family. Chicago or vicinity preferred. Address OTTO GANZERT. Crete, Ill.

SITUATION WANTED—By florist and gardener; well experienced in all branches; age 36. Best of references. Private or commercial place. FRANK OTTO, 583 Lincoln Ave., Chicago.

SITUATION WANTED—By a young man of good habits; practical grower of roses, carnations, violets, decorative and bedding plants, forcing bulbs. Good recommendations. Box 696, Batavia, Ill.

SITUATION WANTED—By a young German; 6 years' experience in this country, in a commercial establishment. Speaks good English. Age 22; single. Good references. Address L, Box 72, Calla, Ohio.

SITUATION WANTED—By single man, as foreman in commercial or private place. Specialist in the growing of roses, chrysanthemums and violets; 20 years' experience. Best of references. Address D, care American Florist, Chicago.

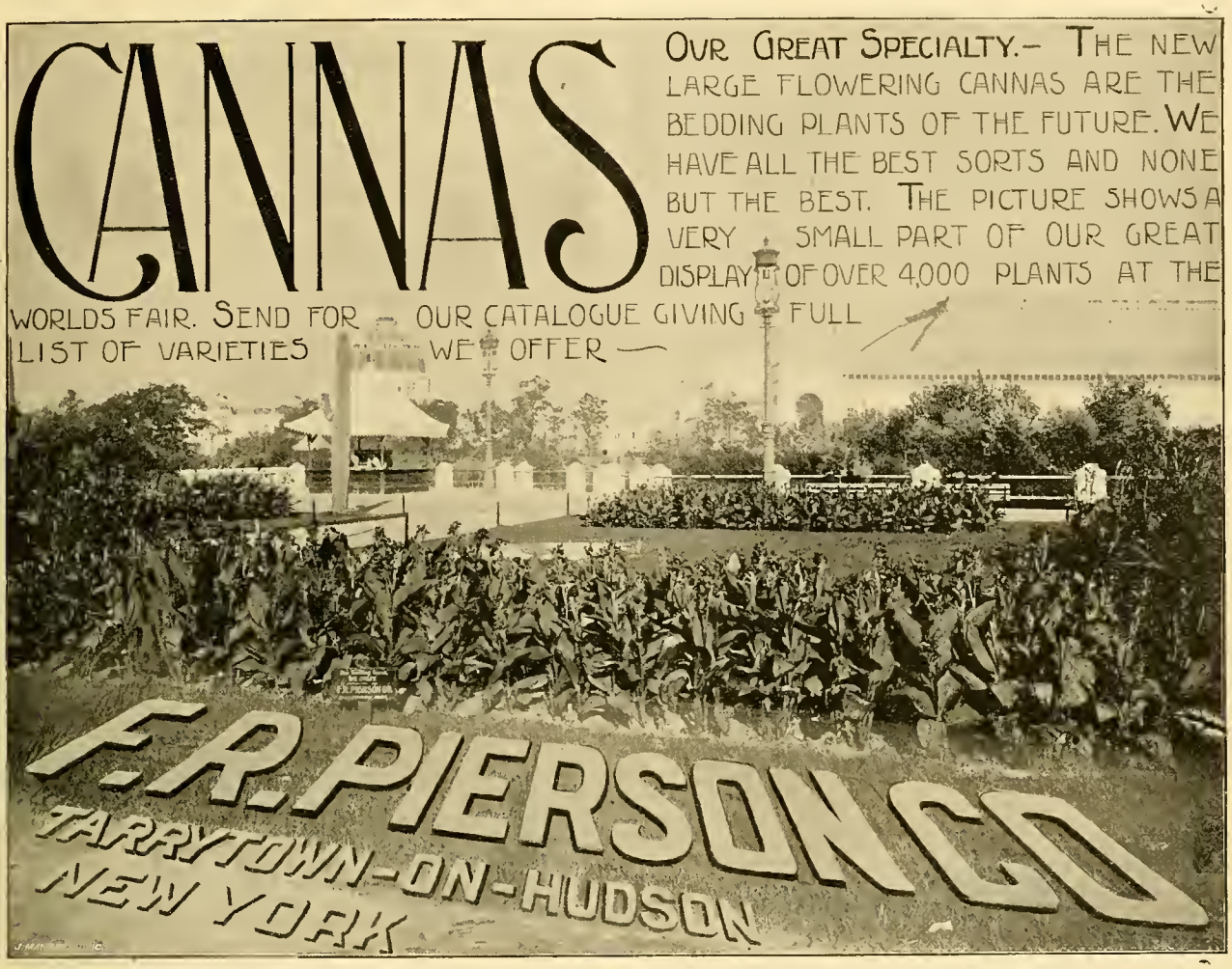
WANTED—A man of good habits, who understands forcing and propagating roses. References required. Address THE C. A. DAHL CO., 10 Marietta St., Atlanta Ga.

WANTED—An experienced packer in the wholesale plant department of a good sized place. Must come well recommended as to ability and good character. State wages wanted. Address X A R, care American Florist, Chicago.

For Sale.

My stock (20 shares) in Probst Bros. Floral Co. For particulars, write

SAMUEL MURRAY,
1017 Broadway, KANSAS CITY, MO.



Siebrecht & Wadley,

ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.

Palms,
ORCHIDS,
Roses,
and New Plants.

FRESH DRACAENA CANES NOW READY.

ORCHIDS.

The Finest Stock in the World.

SANDER'S,
ST. ALBANS,
ENGLAND.

Thirty minutes from London.

Our Mr. A Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street. New York City.

DO YOU KNOW . .

THAT YOU CAN GET

20 CANE STAKES FOR 1 CENT

A foot in length by simply using a sharp saw on a bundle of our best.

BRACKENRIDGE & CO.,
304 W. Madison St., BALTIMORE, MD.

Please mention the American Florist every time you write any of the advertisers on this page.

Swainsona

GALEGIFOLIA ALBA.

The beautiful pea-like blossoms of this free blooming plant are produced in racemes three to five inches long.

IT IS ESPECIALLY VALUABLE TO THE FLORIST WHO GROWS AND RETAILS HIS OWN FLOWERS.

A few extra strong plants in bud and bloom, $4.00 per dozen.

Plants well established in thumb pots, $10 per 100.

EDWIN LONSDALE,

Money Order office, Station "H", Phila. | WYNDMOOR, nr. Chestnut Hill, PHILADELPHIA, Pa.

FRESH IMPORTED ORCHIDS.

Cattleya Gaskelliana,

5—7 Bulbs, $.75 each.
7—12 Bulbs, 1.25 each.
Larger plants, $2.00 to $5.00 each.

I. FORSTERMAN,
Newtown, N. Y.

CYCLAMEN GIGANTEUM from best seed, strong plants, showing bloom in 4 and 5-inch pots, $8, $10, $20, $30 and $50 per 100. Dozen at same rates. Assorted colors.

PRIMULA CHINENSIS, in variety of foliage and color, 4-inch pots, $8, $10 and $12 per 100. Dozen at same rates.

Promptly shipped at "FLORISTS" Express rates.

A. S. MacBEAN, Lakewood, N. J.

FLORAL DESIGNS

The Cut Flower Worker's Friend. Fine book of 160 pages. Send $3.50 for it, to

J. HORACE McFARLAND, Harrisburg, Pa.

CHOICE SEEDS.

PETUNIA FIM. FL. PL.

The largest and finest strain of double fringed and mottled Petunias to be had. All who see these Petunias say they are the finest they ever saw. Selected specially for florists. Extra.

VERBENA GRAND.

This fine strain of Mammoth Verbenas gives perfect satisfactinn to my many customers and is justly claimed to be the finest in cultivation. Florets an inch in diameter, in immense umbels, of the finest colors. Florists, be sure to sow of it.

CYCLAMEN GIANT.

A magnificent collection of the finest Giant Flowering varieties; largest flowers and best colors.

Per liberal Trade Packet of each of the above, 25 cts; 3 pkts. 60 cts.; 6 pkts. $1.00.

JOHN F. RUPP, Shiremanstown, Pa.

CINERARIAS.

Dwarf and the Tall varieties, from seed of the first quality, 2¼-inch, $2.50 per 100; 3inch, $4.00 per 100.

FUCHSIAS, Rooted Cuttings, mixed varieties, $1.00 per 100.

S. WHITTON, 11 Roberts St., Utica, N. Y.

VERBENAS, MAMMOTH PLANTS in perfect health, $2.00 per 100. ROOTED CUTTINGS, $6.00 per 1000. Finer I never saw. Warranted; delivered free for December only.

W. B. WOODRUFF, Florist, Westfield, N. J.

TO EXCHANGE

One or two hundred Paeonies, double mixed, very best, to exchange for Coleus and Fuchsia, one good sized Camellia (white), one Azalea (white). Please send catalogue. FLORAL HILL NURSERY, P. O. Box 317. Northport, L. I., N. Y.

Send for a Copy
OF OUR

TRADE DIRECTORY

AND REFERENCE BOOK.

PRICE $2.00.

AMERICAN FLORIST CO.,
P. O. Drawer 164. CHICAGO, ILL.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

THE large iron-frame palm house exhibited by Hitchings & Co. at the World's Fair, and upon which they received several awards for architecture and details of construction, has been sold to Messrs. James Weir, Jr., & Son, of Brooklyn, and will be placed on their grounds at the Flatbush entrance to Greenwood Cemetery.

PLEASE WRITE on your printed letter head when addressing our advertisers. If you have no printed letter head, then enclose your business card or bill head.

CUT FLOWERS.

Novelties and New Introductions in

ROSES AND CHRYSANTHEMUMS.

Fine Exhibition Stock.

THOS. YOUNG, JR.,
WHOLESALE FLORIST,
20 WEST 24TH ST., NEW YORK.
Mention American Florist.

Cut Smilax

Largest and most reliable stock in America.

Satisfactory prices on application.

THE NATIONAL PLANT CO.,
Dayton, Ohio.

CUT FLOWERS
—OF—
CARNATIONS

Prices on application.
CHAS. T. STARR, Avondale, Chester Co., Pa.

CUT FLOWERS.
Roses, Carnations
AND Chrysanthemums.
Write for prices.
GEO. A. KUHL, Pekin, Ill.

VALLEY. Plenty of it.
ROMAN HYACINTHS always on hand.
LIL. HARRISII, finest in the market.
ROSES. Best to be had.

Book your Christmas orders with us now.

Galax Leaves. We are Western Agents for one of the largest dealers in North Carolina, and can have them in our store within 48 hours after they are picked. Write us for estimate on large lot.

—— Shipping orders promptly attended to. ——

J. B. DEAMUD & CO., 45 Lake St., CHICAGO.

OUR SPECIALTIES FOR NOW:

First Premium **Valley** that could not be **beat. Chrysanthemums** that are fine, **American Beauties** and all roses first **quality, Carnations** in variety, extra fine **Smilax, Adiantum** and **Asparagus.** Our great specialty fine **ORCHIDS.**

CORBREY & McKELLAR,
WHOLESALE AND COMMISSION FLORISTS,
PHONE, MAIN 4508. 45 Lake St., CHICAGO.

FOR DECORATING, NOTHING CAN EQUAL
ASPARAGUS PLUMOSUS NANUS.
CUT STRINGS 8 TO 12 FEET LONG, 50 CTS. 12 TO 18 FEET LONG, $1.00.
Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.
W. H. ELLIOTT, Brighton, Mass.

Wholesale Florists

The LaRoche & Stahl Flower Co. Limited.
N. E. CORNER
13th & Chestnut Sts.
PHILADELPHIA.
Mention American Florist

SAMUEL S. PENNOCK,
Wholesale Florist
REAR OF 42 S. 16th STREET,
Philadelphia, Pa.

H. L. SUNDERBRUCH,
Wholesale Florist
4TH AND WALNUT STREETS,
Cincinnati, O.

DAN'L B. LONG,
COMMISSION • FLORIST,
495 Washington St., BUFFALO, N. Y.
FORCING BULBS, FLORISTS' SUPPLIES, LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application.

Oh Look!

CHRISTMAS PRICES.

Roman Hyacinths
only $2.25 per 100
Cypripedium insigne
$2.00 per dozen
Smilax, 25 cents a string.

CASH WITH ALL ORDERS.

Send your orders at once.
KOFFMAN, The Smilax King,
WALDEN, N. Y.

W. ELLISON,
WHOLESALE
Cut Flowers AND Florists' Supplies
1402 PINE STREET,
St. Louis, Mo.

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
WHOLESALE
FLORIST,
1122 PINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO.

	Per 100
Perles, Niphetos, Gontier	$ 2.00@$ 3.00
Bride, Mermet, La France, Victoria	3.00@ 5 00
Testout, Meteor	5.00@ 6.00
Am. Beauty	12.00@ 25.00
Carnations, long	1.00@ 1.50
" fancy	2.00
" short	.50@ 1.00
Valley, Romans, Paper White	4.00@ 5.00
Harrisii, Callas	12.00@ 18.00
Violets, single	$1.00; double 1.50
Chrysanthemums, common	2.00@ 6.00
" fancy	8.00@ 20.00
Smilax	18.00
Ferns, common	per 1000 $2.50. .30
Adiantum	1.00
Fresh Cycas leaves	$1.00 each.

Western Agent for the GREAT ANTIPEST.

FLINT KENNICOTT, President. FRED. W. H SUNDMACHER, Sec'y and Treas.

Kennicott Bros. Co.
34 & 36 RANDOLPH STREET,
CHICAGO.
WHOLESALE CUT FLOWERS,
and FLORISTS' SUPPLIES.
WIRE WORK A SPECIALTY.

General Agents for Chicago and the Northwest of Kelsey's Beautiful New Southern Galax Leaves, $2.00 per 1000; 25 cents per 100.

A. L. RANDALL,
Wholesale Florist,
126 Dearborn St., CHICAGO.

Agent for finest grades Waxed and Tissue Papers.

REINBERG BROS.
WHOLESALE GROWERS OF
CUT FLOWERS
Roses, Carnations and Violets Specialties.
51 WABASH AVENUE,
Telephone 4937. CHICAGO.

WHOLESALE FLORISTS,
JOBBERS IN . . . FLORISTS' SUPPLIES, FLORISTS' VASES.
METS, BRIDES, GONTIERS, CARNATIONS, ALWAYS ON HAND.
1 Music Hall Place,
BOSTON, MASS.
HORTICULTURAL AUCTIONEERS. . .

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St., BOSTON, MASS.

CUT SMILAX,
15 cts. per string till November 1st. Quality first-class. Special attention to orders by wire.
E. BONSALL & SON, 308 Garfield Ave., Salem, O.

Mention the American Florist when writing to advertisers on this page.

Wholesale Markets.

Cut Flowers.

NEW YORK, Dec. 11.

Roses, Gontier, Niphetos	2.00
" Perle, Hoste	2.00@ 3.00
" Mermet, Bride	2.00@ 4.00
" Cusin, Watteville	2.00@ 4.00
" Meteor, Augusta Victoria	4.00@ 8.00
" Testout	4.00@12.00
" Beauty	5.00@40.00
Valley	3.00@ 4.00
Hyacinths, narcissus	2.00
Violets	1.00@ 2.50
Carnations	.75@ 2.00
Chrysanthemums	5.00@20 00
Smilax	10.00@12.00
Adiantum	1.00
Asparagus	50.00

BOSTON, Dec. 11.

Roses, Gontier, Niphetos	2.00@ 3.00
" Perle, Sunset	4.00@ 5.00
" Bride, Mermet	3.00@ 6.00
" Meteor, Testout	4.00@ 8.00
" American Beauty	16.00@35.00
Carnations	.75@ 1.50
Chrysanthemums	6.00@ 8.00
Violets	1.00
Lily of the valley	4 00
Romans, narcissus	3.00@ 4.00
Harrisii, callas	12.50
Smilax	12.50
Adiantum	1.00@ 1.50
Asparagus plumosus	50.00@75 00
Stevia, bouvardia	1.00

PHILADELPHIA, Dec. 11.

Roses, Perle, Gontier, Niphetos	3.00
" Cusin, Watteville, Hoste	3.00
" Bride, Mermet, Bridesmaid	5.00@ 8.00
" Meteors, Kaiserin, La France	6.00@10.00
" Belle, Beauty	20.00@30.00
Carnations, long	1.00@ 1.50
" short	1.00
" E. Craig, Sweetbrier, H. Keller	2.50@ 4.00
Violets, single, per 100 bunches	$5
" double	1.00@ 1.50
Valley	4.00
Romans, Narcissus	2.00@ 4.00
Longiflorums, callas	8.00@16.00
Bouvardia	1.00
Smilax	12.00@15.00
Asparagus, per bunch and string	50c to 75c
Adiantum	1.00@ 1.50

CHICAGO, Dec. 12.

Roses, Perle, Gontier, Niphetos	2.00@ 3.00
" Bride, Mermet, La France	3.00@ 5.00
" Kaiserin	3.00@ 5.00
" Meteor, Testout	5.00@ 7.00
" Beauties	12.00@25.00
" Bridesmaid	6.00
Carnations, long	1.00@ 1.50
" short	.50@ 1.00
" fancy	2.00@ 3.00
Valley	4.00@ 5.00
Romans	2 00@ 4.00
Paper White Narcissus	2.00@ 4.00
Harrisii, Callas	12.00@15.00
Smilax	12.00@18.00

CINCINNATI, Dec. 9.

Roses, Beauty	25.00@35.00
" Mermet, Bride, La France	5 00@ 6 00
" Perle	3 00@ 4.00
" Niphetos	4.00@ 5 00
Carnations, long	1 50@ 2.00
" short	.75@ 1 00
Callas	12.50
Harrisii	15.00
Valley	5.00
Narcissus, Romans	3.00@ 4.00
Asparagus	50.00@75.00
Smilax	15.00

ST. LOUIS, Dec. 11.

Roses, Gontier, Niphetos	3.00@ 4.00
" Bride, Mermet	4.00@ 6.00
" Kaiserin, Testout, Meteor	5.00@ 8.00
" Beauty	5.00@35.00
" Bridesmaid	6.00
Carnations, long	1.50@ 2.00
" short	1.00
Romans	3.00@ 4.00
Narcissus	4.00
Harrisii, Callas	10.00@15.00
Smilax	12.00@18.00

BUFFALO, Dec. 11.

Roses, Beauties	25.00@35.00
" Mermet, Bride, Bridesmaid	6.00@ 8 00
" Testout, La France, Meteor	8.00@12.00
" Gontier, Niphetos, Hoste, Perle	5.00@ 6.00
Valley	5.00
Violets	1.50
Hyacinths, narcissus	3.00
Carnations, long	2.00
" Daybreak	2.50
" short	1.00
Chrysanthemums	5.00@25.00
Smilax	20.00
Adiantum	1.50

GEORGE A. SUTHERLAND,
SUCCESSOR TO
PEGK & SUTHERLAND,
Successors to WM. J. STEWART,
CUT FLOWERS
and Florists' Supplies.
WHOLESALE.
67 Bromfield St., BOSTON, MASS.

BURNS & RAYNOR,
29 West 28th Street,
NEW YORK,
Wholesale Dealers in and Shippers of
Choice Flowers
OUR SPECIALTIES:
AMERICAN BEAUTIES, METEORS. BRIDESMAIDS.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST,
32 West 30th Street, NEW YORK.
Roses Shipped to all points. Price list on application.

Violet Growers
find the best outlet for First-Class Blooms
AT
JOHN YOUNG'S,
53 West 30th Street, NEW YORK.
The largest and finest stock in the country is now coming to this establishment.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS,
51 W. 30th St., NEW YORK.

JAMES HART,
WHOLESALE FLORIST,
117 W. 30TH ST., NEW YORK.
The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHRS,
WHOLESALE
FflorisT,
111 WEST 30TH STREET,
NEW YORK CITY.
Established 1879.

MILLANG BROS.,
Wholesale Florists,
17 WEST 28TH STREET,
NEW YORK.
BRANCH: Cut Flower Exchange, 408 E. 34th Street.

MICHAEL A. HART,
Wholesale AND Commission Florist
113 WEST 30TH STREET,
. . . NEW YORK.
THE FINEST ROSES AND CARNATIONS.
Branch, at Cut Flower Exchange, 408 E. 34th St.

Edward C. Horan,
34 W. 29th Street, NEW YORK,
WHOLESALE FLORIST.
Careful Shipping to all parts of the country
Price list on application.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and treasurer, 116 Chambers street, New York. Next annual meeting second Tuesday in June, (will probably be held in Toronto.)

VISITED CHICAGO: C. C. Morse, Avery Gallup, Dan'l De Cou of Philadelphia, returning from Pacific coast, J. O'Neil of Philadelphia.

HARVARD, ILL.—Robert C. Uecke has succeeded to the Harvard branch of the nursery firm of Uecke Bros., the firm having been dissolved.

HARRISBURG, PA.—The Melrose Seed and Floral Co. have added two new houses, one 14x80 for ferns and palms and one 12x80 for violets. They have also put in a new boiler with sufficient capacity to allow the addition of two more houses next year. W. E. Machlin is proprietor and his plot of ground contains eight acres. The store, at 32 South 3rd street, will add a seed department in addition to cut flowers, etc., and is under the management of A. B. Machlin.

SPRINGFIELD, MASS.—At the adjourned annual meeting of the Hampden County Hort. Society officers for the ensuing year were elected as follows: E. P. Chapin, Pres.; R. H. Smith, 1st Vice-Pres.; Clark W. Bryan, 2d Vice-Pres.; Geo. S. Lewis, Jr., 3d Vice-Pres.; W. F. Gale, Sec'y; G. R. Bond, Treas. Seven exhibitions are to be held next year as follows: A pansy show in April, an exhibition of spring bulbs in May, a rose and strawberry exhibition in June, a sweet pea exhibition in July, a begonia show in August, a general exhibition of fall flowers in September and a chrysanthemum show in November. The first five exhibitions will be free and probably will be held on Saturday afternoons and evenings. The time and place of all of the shows will be decided upon by the committee of arrangements.

CANE STAKES

10 to 12 feet long,

at $4.00 per 1,000
3.50 by 5,000
3.00 by 10,000

A. C. OELSCHIG,
. . SAVANNAH, GA.

CATALOGUE PRINTING. ELECTROTYPING.

Done with expert ability for Florists, Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.
. . . HARRISBURG, PA.



Kills Mildew and Fungus Growth. What does? **GRAPE DUST.** **Sold by Seedsmen.**

HOW TO GROW CUT FLOWERS.

A PRACTICAL TREATISE ON
THE CULTIVATION OF THE ROSE,
And Other Flowering Plants for Cut Flowers, sent to any address upon receipt of $2.00. M. A. HUNT, Terre Haute, Ind.

ELECTROTYPES of VEGETABLES, FLOWERS, ETC.
VILMORIN, ANDRIEUX & CO., Seed Growers, Paris.
Apply for Catalogues. NOVELTY SHEET NOW READY.

Complete Stock in New York
—WITH—
THEO. PABST & CO., 26 Barclay Street.

VALLEY PIPS.

Our XXX strain is a favorite with leading growers for Xmas forcing.

SAMPLE CASES OF 2,500 PIPS, AT $21.00.

W. W. Barnard & Co.
6 and 8 N. Clark Street, CHICAGO.

Hulsebosch Brothers,
OVERVEEN, HAARLEM, HOLLAND.

	Per 100	Per 1000
LIL. HARRISII, 7—9	$3.00	$25.00
" CANDIDUM	2.00	15.00
WHITE ROMAN HYAC., 11—15	1.75	15.00
ITALIAN, blush white Hyac., 12—17	1.75	15.00
NARCISSUS CAMPERNELLE	.60	4.50
SINGLE BEGONIAS, fine bulbs, new crop, finest strain, in 4 separate colors	4.50	35.00
CONVALLARIA MAJALIS, German pips	1.00	8.00
TUBEROSES, Pearl and Tall, A1.	.90	7.50

Low budded Roses, hardy Azaleas, Rhododendrons, Clematis, etc., etc., can be ordered at any time for March, '94 delivery.

HULSEBOSCH BROS.,
58 West Street, NEW YORK CITY.

SEND for Catalogue of



JAPAN BULBS, SEEDS and SHRUBS, ARAUCARIAS, TREE FERNS, AUSTRALIAN PALM SEEDS, CALIFORIA BULBS and SEEDS to

H. H. BERGER & CO.,
Established 1878. SAN FRANCISCO, CAL.

Z. De Forest Ely & Co.
WHOLESALE SEEDSMEN,
Growers AND Importers of Bulbs.
JOBBERS IN
FLORISTS' SUPPLIES.
1024 Market Street, PHILADELPHIA, PA.
Price lists to dealers on application.

WE SELL MUSHROOM SPAWN,
LILIUM HARRISII AND DUTCH BULBS.
Special Low Prices to Florists & Dealers.
WEEBER & DON,
Seed Merchants and Growers,
114 Chambers Street, NEW YORK.

THE GREAT ANTIPEST.
For particulars, see next week.
R. W. CARMAN, GEN'L AGT.,
291 Amity Street, FLUSHING, Queens Co., N. Y.

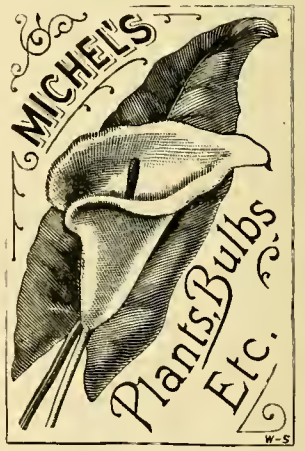
FIFTY THOUSAND
PEARL TUBEROSES
F. O. B. NEW YORK.

We offer selected bulbs of above, from four to six inches in circumference, for shipment early in December, at $9.00 per 1000. Orders accepted subject to being unsold.

SWEET PEAS, California grown.

We are headquarters for California grown Sweet Peas, and parties desiring to contract for their requirements for season of 1894, will do well to write for prices.

SUNSET SEED & PLANT CO.
(SHERWOOD HALL NURSERY CO.)
427-9 Sansome St., *San Francisco, Cal.*



Write for Wholesale List.
MICHEL PLANT AND BULB CO.,
ST. LOUIS, MO.
Mention American Florist.

G. J. MOFFATT,
Manufacturer of
PAPER BAGS AND ENVELOPES
Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN, CONN.



TRY DREER'S
GARDEN SEEDS,
Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
HENRY A. DREER,
Philadelphia, Pa.

Evergreen Wreathing.

Especially made for our Florist trade, from Select Green.

Medium heavy, per 100 yds. $3.50; per 1000 yds. $30.00.
Extra heavy, per 100 yds. $5.00; per 1000 yds. $45.00.

(Samples of medium grade, 20 yards for 75 cts. Samples of heavy grade, 20 yards, for $1.00.)

BOUQUET GREEN (In Bulk). Write or wire for lowest prices. We have a good stock of No. 1 green to offer.

HOLLY. (Well packed cases of 16 cubic feet), as good stock as the season has produced. Per half case, $3.00; per case, $5. Larger lots at lower prices.

Send for our Circular on Xmas Decorations.

W. W. Barnard & Co.
6 & 8 North Clark St., CHICAGO.

Wild Smilax, Pines and Palmettos



FOR DECORATIONS
AT LOW FIGURES.

Low freight rates by steamer to New York, Boston, Philadelphia and Baltimore.

A. C. OELSCHIG,
SAVANNAH, GA.

Mention American Florist.

Holly.

DIRECT FROM THE TREES.
GOOD GREEN, Well Berried.

ONE CASE	$ 5.00
THREE CASES	14.25
FIVE CASES	22.50

Send for circular. I pay the freight for cash.

J. H. HAROLD, Marion Sta., Som. Co., Md.

Galax Leaves.

You cannot afford to be without them if you sell Cut Flowers and Decorate. Especially for Christmas. Big money in them. I sold 300,000 in 3 months last winter. **$2.00 per 1000 by express. Sample 100 sent by mail on receipt of 50c.**

LINCOLN I. NEFF, Florist,
4010 Butler St., PITTSBURG, PA.
AGENT FOR HARLAN P. KELSEY.

GERANIUMS.

At least 40,000 in flats, at	$15.00 per 1000
At least 20,000 in 2½-inch pots	20.00 per 1000
A few thousand Coleus in 2½-inch pots,	20.00 per 1000
A few thousand Double White Petunias, 2½-inch pots, at	2.50 per 100
Ageratum, blue and white	2.00 per 100

At these prices the selection of sorts to remain with us.

The above are in fine condition. Cash with the order.

J. E. FELTHOUSEN,
370 Van Vranken Avenue, SCHENECTADY, N. Y.

	Per 100	Per 1000
Amaryllis Equestre	$ 4 50	$38 00
" Johnsoni	10 00	
Zephyranthus (Amaryllis) Atamasco	75	4 00
Crinum Kirkii	9 00	
Zamia integrifolia, per 100 lbs. $6.		
Sansevieras	4 00	35 00
Tillardsias or Air Plants in 5 vars.	2 00	10 00

Seeds of Nymphæa Zanzibarensis and N. Dentata, $3.00 per ounce.

For other stuff send for our trade list.

BRAND & WICHERS, San Antonio, Fla.

P. S.—We supply our brother florists with Fancy Oranges for Christmas, $2.00 per box.

ALL HOLIDAY STOCK.

Our **"Get There"** Holly is still in it. Others say they have as good—which means ours is **The STANDARD,** for **TIME, QUALITY** and **SOLID PACKING.** If you want the smooth-leaved Southern Holly, we can supply it at **$3.00 a Case** in Chicago.

Evergreen Wreathing, at $2.75, $3.25 and $4.00
Scarlet Immortelles, fine, per bunch 21 cents.

When you **REALLY WANT** Holly or other Holiday Stock, write or wire us. **YOU WILL GET IT.**

J. C. VAUGHAN,
New York. CHICAGO.

DOES IT PAY?

to wait till the last moment.

NO! Then order your



Bouquet Green, Cut Ferns, Sphagnum Moss, Xmas Trees, Holly, Festooning, and Xmas Green of all kinds. ▲ ▲ ▲ ▲

And do it early. Write for prices—low as the lowest. A 1 goods, and the only place in the WORLD where you can ALWAYS get them.

H. E. HARTFORD, 18 Chapman Place, BOSTON.



FANCY. DAGGER.

EVERGREEN
CUT FERNS

ESPECIALLY FOR FLORISTS' USE.

$1.25 per Thousand Ferns.



IN LOTS OF 5,000 AND UPWARDS, $1.00 PER 1000. Ferns furnished the year round. Special attention given to supplying the Wholesale Trade.

BOUQUET GREEN For Holiday Trade, $2.00 per barrel (thirty pounds); or $6.00 per hundred pounds. Special reduction in express rates.

SPHAGNUM MOSS a specialty. Long, clean fibre, dry or green, $1 per barrel, or six bbls. for $5. Write for terms on large lots. Terms cash, or goods will be sent C. O. D.

CHRISTMAS TREES. American White Spruce, much better shape and color than the Blue Spruce, also Balsam Fir from 3 to 30 feet high. Special attention to supplying carload lots. Write for price list and terms.

L. B. BRAGUE, Hinsdale, Mass.

City Stand During the Holidays: 47th St. and Lexington Ave., NEW YORK.

Holly, Mistletoe, Bouquet Green and Wreathing.

WISCONSIN FLOWER EXCHANGE,

468 Milwaukee Street, **MILWAUKEE, WIS.**

Verbenas

SPECIAL OFFER.

	Per 100	Per 1000
Unsurpassed Mammoths, 2¼-inch pots	$3.00	$25.00
" " rooted cuttings	1.25	10.00
General collection, named, " "	1.00	8.00
" " " 2¼-inch pots	2.50	20.00
H. P. Roses, dormant, strong	6 00	75.00
Teu " " "	6.00	50.00
Forcing " 3-inch pots, "	6.00	50.00

WOOD BROTHERS,
Fishkill, N. Y.

EXTRA CHOICE FLOWER SEEDS.

List free on application.

FRED. ROEMER, SEED GROWER,
QUEDLINBURG, GERMANY.

THE ASSOCIATION FLORA,

BOSKOOP, HOLLAND.

NOW ON HAND IN NEW YORK:

CLEMATIS in sorts, 3 years	per 100	$25.00
SPIRÆA JAPONICA	"	4.00
DIELYTRA SPECTABILIS	"	4.00

Lilium speciosum, Pæonias Rhododendrons, Azaleas H. P. Roses, in best varieties, per 100 $9 00: Abel Carriere, Alfred Colomb, Anna Alexieff, A. de Diesbach, B. Rothschild, Fisher Holmes, Gen. Jack, La Franee, Mme. G. Luizet, Mme. Plantier, Magna Charta, Paul Neyron, P. C. de Rohan, Perle des Blanches, Ulrich Brunner and others. Catalogue on application.

P. OUWERKERK,
206 Cambridge Ave., JERSEY CITY, N. J.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

News Notes.

BYRON, O.—Aaron Jones has started into the business here.

SAN FRANCISCO.—Mr. F. Gonzalez left last week on a trip to Japan.

JACKSON, MICH.—W. R. Hibbard has opened a floral store in the Hurd House block. Robert H. Heath built three new houses this season.

CHARLESTON, S. C.—Mr. J. M. Connelley, a leading undertaker, has added a greenhouse department to his business and has erected a fine range of houses on Meeting street, which will be devoted mainly to the production of cut flowers. Most of the greenhouse flowers used here in the past have been shipped here from the north.

WE HAVE RECEIVED from Mr. W. Wincott, Effingham Park, Babylon, L. I., a box of Marie Louise violet blooms of excellent quality. The fragrance had held remarkably well through the long journey and every bloom exceeded an inch in diameter. The accompanying foliage was as clean and vigorous as could be wished.

SHEBOYGAN, WIS.—Wm. Schucht & Co. have succeeded to the business of Otto Schucht. Trade has been fairly good, though the effect of the hard times is felt. Roses and carnations are in greater demand than any other kind of flowers. The principal trade is, however, in pot plants. The chrysanthemum craze has not yet reached here to any great extent, but calls are becoming more frequent.

MINNEAPOLIS, MINN.—Trade has been very dull this fall. Every florist is complaining. But the sales for Thanksgiving day compared very favorably with those of former years. Flowers were plenty, but were pretty well sold out. We are looking forward to a good Christmas trade. Flowers will probably be scarce, as it has been very cloudy lately, and unless we have more sunshine the supply of roses will be very short. The wholesale prices are generally so high that there is no money in buying, as the people here will not pay fancy prices.

ROSES.

	Per 100	Per 1000
1500 Perle, 3-inch	$ 5.00	$40.00
1000 " 2½-inch	3.00	25.00
600 Bride, 2½-inch	3.00	25.00
1200 Mermet, 2-½-inch	3.00	25.00
200 Hoste, 2½-inch	3.00	

BROWN & CANFIELD, Springfield, Ill.

Forcing Roses.

A stock of the best varieties always on hand.

M. A. HUNT, Terre Haute, Ind.

ROSES.

SOUVENIR DE LA MALMAISON

Own root plants, out door grown, $15 per 100.

ULRICH BRUNNER, own root plants, out door grown, $15 per 100. Budded on Manetti stock, $15 per 100.

EDWIN LONSDALE, Chestnut Hill, Phila.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

CARNATIONS.

I have fourteen houses planted to carnations, and they are under my special care and supervision so that I can guarantee every cutting sent out.

If you will kindly write to me stating what varieties you want, how many of each, and when they are to be delivered, I will give you figures and think we can make a deal.

ANNIE PIXLEY.—This is a new pink, and one that you want to try; it is one of those beautiful light pinks, just the proper color. The stems can be cut fifteen to twenty inches long, the calyx never bursts, and it is such a strong grower and free bloomer that you can't help but make money if you plant it.

Orders will be filled in rotation, beginning now. Price per 100, $12.00; per 1000, $100.00. Twenty-five at 100 rate, 250 at 1000 rates.

Samples of any stock free. Terms absolutely cash with the order or C. O. D.

L. B. 496. ALBERT M. HERR, LANCASTER, PA.

100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.

NO RUST OR MILDEW.

Packed light, and satisfaction guaranteed. Send for circular. . . .

We are the largest growers of Verbenas in the country. Our sales reaching last year 215,500. Our plants this year fully equal, if not surpass, any we have ever grown.

J. L. DILLON, Bloomsburg, Pa.

SWEETBRIER

Received 1st Premium for "best seedling of any color" at Phila., Nov. 7, '93. Color between Daybreak and Wilder.

"I like its color better than Daybreak."
EDWIN LONSDALE,
"Sweetbrier is all that can be desired."
W. A. MANDA.

Rooted cuttings, $10 00 per 100; $80.00 per 1000. Delivery to begin February 1, '94.

OPHELIA

Was winner of Craig Cup for best seedling at Phila., Spring of '93. Color darker than Wilder.

"That beats Edna Craig." BENJ. DURFEE.
"It is the best flower in your houses." ROBT. CRAIG.

Price and delivery same as above. Flowers of both the above brought $5.00 per 100 wholesale at J. R. Freeman's, Washington, last winter. Send for price list of other varieties.

EDWD. SWAYNE, Kennett Square, Pa.

Carnations.

Field plants all sold.

Orders solicited for early delivery of ROOTED CUTTINGS in varieties suitable for summer blooming.

C. J. PENNOCK,
The Pines. KENNETT SQUARE, Chester Co., PA.

CARNATIONS.

All the new and leading varieties. Send for prices on what you want.

GEO. HANCOCK, Grand Haven, Mich.

PALMS.

150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

Address GEORGE WITTBOLD,
1708 N. Halsted St., CHICAGO.

CYCLAMEN persicum giganteum 5-inch pots $10 00 per 100
GENISTAS, 2½-inch pots, strong plants, $6.00 per 100.
CARNATIONS, Dorner's Seedlings, $15 per 100 McGowan, Puritan, Wilder, and others, $8.00 per 100. Second size $6.00 per 100
Correspondence solicited.

Address J. G. Burrow,
FISHKILL, N. Y.

For Mildew on Roses

and CARNATION RUST,

USE FOSTITE.

Book on Fostite sent free.

Address C. H. JOOSTEN,
3 Coenties Slip, NEW YORK.

PANSIES.

I will have good little plants right along until April 1st. The strain is good, extra good, and the price is very low, quality considered. Per 100, 75c; per 500, $3.00, free delivery; per 1000. $5.00, you to pay the delivery.

GERANIUMS.

Rooted Cuttings, all first-class varieties and good bedders. Price, in mixture, $10.00 per 1000; $1.50 per 100. In separate colors, $12.00 per 1000, or $2.00 per 100. There are no medium varieties among these; all are A No. 1.

New Yellow Coleus.

The Golden Crown is a perfect beauty,
On the lawn will do its duty;
Its color, style, and growth are fine,
'Twill make the landscape fairly shine.

Fine stock now ready, $3.00 per dozen; (Golden Bedder we don't want you).

The Verbena of yore was a modest wee styme,
Scarcely as large as a silver dime.
Until Henderson, the great floral arter,
Produced them as large as a silver quarter.
Still we're progressing, florists may laugh,
Gibson shows them as large as a silver half.

P. S.—We have a fair stock of the progressive seed and will gladly supply it to all who may need. 500 seeds 50 cts.; ⅛ oz. $1.00. 500 seeds 35 cts.; ⅛ oz. 60 cts. Post free.

Gibson's Pansies need no praisers,
They're such beautiful, scented blazers,
500 seeds 50 cts.; ⅛ oz. $1.00; nice stocky plants 50 cts. per 100; $4.00 per 1000.

Dreer is the Petunia king,
His elegant strains are just the thing.

Double hand hybridized, per 500 seeds 75 cts.; 1000 seeds $1.25. Plants and rooted cuttings, flats.

Field-grown gold and silver variegated Vincas $5.00 per 100. Snow Crest Daisies, nice young plants, flats, $5.00 per 100. Cash with order please.

Address J. C. GIBSON, Woodbury, N. J.

ASPARAGUS PLUMOSUS NANUS, good plants, from 4-inch pots $20 per 100
ASPIDISTRA, variegated. A few fine plants, 5 and 6-inch pots $4 per dozen
CLIVIA, from fine new European varieties, young plants, 4-inch pots $2 per dozen
EUCHARIS GRANDIFLORA, bulbs 5 to 6 in. circ., with healthy leaves. $3 per dozen
EULALIA UNIVITTATA. . . . $2 per 100; $15 per 1000
ARUNDO DONAX, variegated, strong roots, $2 per dozen. $15 per 100
IRIS GERMANICA, a fine pure white sort, perfectly hardy $10 per 100
PAEONIES, double white and double pink, two of the best, mixed $12 per 100

Any of the above will be sent on receipt of price with order.

ALEX. SCOTT,
Balto. Co., Lauraville, Md.

CLEMATIS.

I have choice lot of nice, well rooted, one year plants, very suitable for potting now; these will make fine strong plants by sales time, grown in cold house and treated same as H. P. and other roses, in variety, Jackmauni, Duchess Edinburg, Henryii, C. Lovelace, Fairy Queen, Lady Neville, Gem, P. Alexandra and others, $1 50 per doz.; $12 per 100. Two year in var. $3 per doz.; $20 per 100.

F. A. BALLER, Bloomington, Ill.

HEADQUARTERS for WATER LILIES

SEED, TUBERS AND PLANTS.

Embracing all the newest and choicest in cultivation. Awarded SIX MEDALS at World's Fair—the highest number of awards for aquatics.

Illustrated descriptive Catalogue free on application.

Wm. TRICKER, DONGAN HILLS, New York.

Please mention the AMERICAN FLORIST every time you write to an advertiser.

THE BEST CARNATION IN THE MARKET.

THE ADELHAIDE KRESKEN,

Which was originated in 1891, and flowered in the same year, is conceded by all to be the prettiest Carnation ever grown. Strong grower, free from rust, is two feet high, stiff stem, good calyx, and the flower (of a beautiful rosy pink color) averaging three inches and over.

A VERY FREE BLOOMER. In addition to recovering the **Best Seedling Prizes** at Cincinnati, O., Club Certificate at Springfield, Mass., and Milwaukee, Wis., Hunt Prizes, Indianapolis, Ind., it has received certificates of merit at The American Florists' Society, St. Louis, Mo.; also the best vase of pinks at St. Louis, Mo. The undersigned begs leave to submit the following exceedingly low prices for **Rooted Cuttings,** which will be ready March 1st, 1894:

$2.00 per Dozen; $10.00 per 100; $45.00 per 500; $80.00 per 1000.

Cash Must accompany all orders. Address all communications to

PETER HERB, Mount Healthy, Hamilton Co., Ohio.

Chrysanthemums.

STOCK PLANTS.

15 Cents Each.

Bride of Roses	L. Canning	Mr. H. Cannell
Bohemia	Lord Eversley	Pres. Hyde
E. G. Hill	Louis Bochmer	Potter Palmer
Emily Dorner	Molly Bawn	Violet Rose
Fred. Dorner	Mrs. A. Hardy	Waban
Geo. Savage	Mrs. G. W. Bullock	Yosemite
H. E. Widener	Mabel Douglas	John Lane
	Mrs. I. W. Forsterman.	

20 Cents Each.

Cullingfordii	Harry May	Mrs. K. Brown
Eda Prass	Ivory	Pat. Barry
Ernst Asmus	L. B. Bird	Roslyn
E Ladenburg	Mrs. Whilldin	Sunflower
Geo. Daniels	Mrs. J. Clark	T. C. Price
Grandiflora	M. Wanamaker	Vivland-Morel
Gertie	Mermaid	J. C. Vaughan
	Temple of Solomon.	

35 Cents Each.

Golden Wedding	Dr. Mandeville	Mrs. H. Graves
Sun God	Mrs. W. Cutting	Mrs. A. Mantee
Good Gracious	Imperial Favorite	E. Hitzeroth
E W. Hatch	Mrs. Bayard Cutting.	

Cash to accompany all orders.

A. H. SEAVER,

49th Street and 1st Avenue,

SOUTH BROOKLYN, N. Y.

Chrysanthemums.

STRONG STOCK PLANTS.

Mrs. Jerome Jones.....50 cts.
Mrs. L. C. Madeira.....35 cts.

And at 20 cts., or $2.00 a dozen:

Ivory,	Cullingfordii,
L. Canning,	Firenzi,
Bolero,	Goriosam,

W. W. Coles.

ALL THE NEW ONES WHEN READY.

SEND US THE LIST which you made up at the shows and we will fill it all and save you money.

J. C. VAUGHAN,

NEW YORK.	CHICAGO.
26 Barclay St.	146 & 148 W. Washington St.

COLEUS.

A large stock in 75 varieties, including the very newest kinds.

Rooted Cuttings in 30 to 40 varieties, at $6.50 per 1000 by express.
" " in 20 vars. at $1 00 per 100 by mail.
Golden Bedder (true), at $10 00 per 1000.
Verschaffeltii, Golden Verschaffeltii, Mrs. I. D. Haight, and other yellows, at $8.00 per 1000.
New Kinds including some of the most handsome ever offered for sale in 10 vars. at $2 per 100 by mail.
Stock Plants, ordinary kinds, at $3.00 per 100.
" " Verschaffeltii and yellows, at $4.00 per 100.
Cash with Order. Safe delivery guaranteed.

Also a large and fine stock of **CARNATIONS.**

— Send for circular. —

W. R. SHELMIRE, Avondale, Pa.

200,000 Pansies.

The Jennings strain of large flowering and fancy pansies may still be had in any quantity wanted. Plants are field grown, and are fine and stocky. Pure White, Yellow mixed, by Express, $5.00 per 1000; 5000 $20.00; 10,000 $35.00. Small plants by mail, 60c. per 100. Seed of either of the above, $1.00 per trade pkt. of 2,500 seeds. The leading strain. The largest sales. Always satisfactory.

ADDRESS **E. B. JENNINGS,**

WHOLESALE PANSY GROWER,

Lock box 254. **SOUTHPORT, CONN.**

IN THE FRONT RANK!

NEW WHITE CHRYSANTHEMUM

"MUTUAL FRIEND"

It is sure to be a prize winner and a leading variety for '94.

FIRST PRIZE and CERTIFICATE of MERIT MASS. HORT. SOCIETY, '93.

Orders booked now for March delivery, 50c. each; $4.00 per dozen. At these prices all should try it. We know it will please. Send for descriptive circular.

MANN BROS., Randolph, Mass.

CHRYSANTHEMUMS.

STOCK PLANTS.

AT 50c. EACH—The Queen, Golden Wedding, Mrs. Jerome Jones, Niveus, Maud Dean, Joey Hill, Pres. Wm. R. Smith, A. T. Ewing, W. G. Newitt, W. N. Rudd, Jennie Williams, Geo. R. Gause.

AT 25c. EACH, (All good for cutting)—Amber Queen, Armada, Mrs. Harmon Payne, Mme. Edward Rey, Mlle. Therese Rey (fine), Mme. Octave Mirabeau, Mme. Isaacs, Harry Balsley, Joseph H. White, Mrs. J. G. Whilldin, Marguerite Graham, Marguerite Jeffords, Miss Kate Brown, Golden Bale, Waban, Mrs. E. W. Clarke, Miss Lyda Hopkins, Judge Holt, Mrs. Robt. Craig, F. Bergman, Good Gracious.

AT 12½c. EACH—Ivory, Vivland-Morel, Violet Rose, Jessica, Golden Gate, Sweet Lavender, Mlle. Ferber, L. Canning, Cullingfordii, Elise, Kioto.

CHICAGO FLORAL CO.,

38th St. & Grand Boulevard, CHICAGO, ILL.

BARGAINS,

in these plants, to move quickly. I need the room.

		Per 100
Geraniums, best bedders, strong, 2-inch		$ 2.00
" Bronze, strong, 2-inch		3.00
" Mme Salleroi, strong, 2-inch		1.50
Coleus, from 2-inch pots, fine.	$12.50 per 1000,	1.50
Petunia, double, best sorts, strong, 2-inch		2.50
Primroses, single, best strain, strong, 2½-inch		3.00
" single, best strain, strong, 3-inch		5 00
1500 Carnations, Portia, extra nice field grown		5.00
1000 " Fred Dorner, extra nice field grown		5.00
100 " Harry Palmer, " " "		5.00
200 " Garfield, medium size, but good		5.00
200 " Tidal Wave, " "		4.00

Farleyense Ferns, vigorous plants, 3-inch, 25c. each.
Chrysauthemums, stock plants, best sorts, 10 for $1.00
Rooted Cuttings Coleus, splendid asst., 50c. per 100.
" " Geranium Mme. Salleroi, $1.00 per 100.

N. S. GRIFFITH, Independence, Mo.

Independence is well located for shipping, being 8 miles East of Kansas City, Mo.

Stock Plants Cheap.

STRONG ROOTS OF

Jessica, Viviand-Morel, Geo. W. Childs, Mrs. L. C. Madeira, V. H. Hallock, Ivory, W. H. Lincoln, Waban, J. C. Vaughan, Diana and other Mums,

at 10 cts. each, or $1.00 per dozen.

Cash with order.

SOUTH SIDE FLORAL CO., Springfield, Ill.

E. G. HILL & CO.,

Wholesale Florists

RICHMOND, INDIANA.

3,000

Fine Stock Plants of

CHRYSANTHEMUMS.

Finest Market and Fancy varieties.

☞Send for list and prices.

W. C. COOK & CO.,

70th St. and Adams Ave.,

CHICAGO.

Rooted Cuttings

COLEUS, 10 sorts, **60c. per 100**

BY MAIL.

SAMPLE DOZEN, without names, mailed for 10 cts.

S. O. STREBY,

Lock Box 77,

UPPER SANDUSKY, OHIO.

HYDRANGEA,

THOMAS HOGG,

3 and 4-inch pots, $4.00 and $6.00 per 100.

BRAUER & RICHTER,

McCONNELSVILLE, OHIO.

Lady Hume Campbell.

I take pleasure in offering plants from the original stock of this grand **VIOLET.** Well rooted young plants, ready for delivery May 1, 1894.

PRICE, $3.00 PER 100.

This stock has always been entirely free from disease of any kind. Inspection invited. Orders booked now. **H. HUEBNER, Groton, Mass.**

Insect Affecting Violets.

ED. AM. FLORIST:—Yours of 9th inst., enclosing a specimen sent in by a subscriber and which is said to have been injuring violets, has been received. The specimen was in such a fragmentary condition that no definite determination can be made. It appears, however, to be a Myriapod of the genus Julus. The habit mentioned is unusual, and is it not possible that there bas been some mistake? If your subscriber's observation is correct, the creatures were probably introduced to the violets with manure, and his best plan will be to attract the insects from the violets by slices of fresh beets poisoned with paris green or by cotton seed cakes poisoned in the same way.

C. V. RILEY, Entomologist.

Washington, Nov. 13.

The Secret Out.

Yes, the New York *Sun* has discovered the secret and like a dutiful *Sun* gives it free of cost to a waiting world. Here it is:

A florist was exhibiting to a visitor four or five young rubber plants with mottlings of grayish white on the leaves, the rich green of the plant looking the deeper for the contrast. "Do you know what made that?" he asked. "They're as healthy plants as I have in the place. It's charcoal. I fill the bottom of the pot with powdered charcoal, and that's what I get. I can't explain it. I only know it works that way with several plants. Here are a couple of dracænas, for example. Normally they are a regular leaf of green. You notice that those upper leaves are as red as the finest October maple you have seen this year. It's owing to charcoal."

F. SANDER & Co., recently sued the Great Northern Railway Co. to recover £530, the value of orchids damaged in transit. It appears that in July 1892, Sander & Co. sent a consignment of some four hundred orchids and other plants to the Horticultural Exhibition and that at Hatfield station the truck containing the plants was run into, with the result that several were damaged. The defendants did not dispute their liability but contended that the claim was excessive. The jury returned a verdict for £350.

THE *Suburban Citizen* of Washington published a two column article on the front page of its issue for November 18, giving a very full description of the extensive greenhouse establishment of Messrs. Gude Bros. at Anacostia and an engraving of their handsome store building on F street in the city.

GLASS

which is absolutely perfect for modern greenhouse construction.

ROCK BOTTOM PRICES.

Send for Estimates. Satisfaction Guaranteed.

REED GLASS CO.,

65 Warren Street, and 46, 48 & 50 College Place, NEW YORK CITY.

— OUR —

SASH LIFTER AND HINGES

will do the work and cost you less than any other Send your name and address and we will mail you description and price.

BAY STATE HARDWARE CO.

272 Freeport Street, BOSTON, MASS

Send orders for . . .

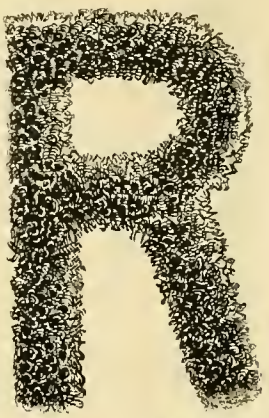
CLEAR CYPRESS

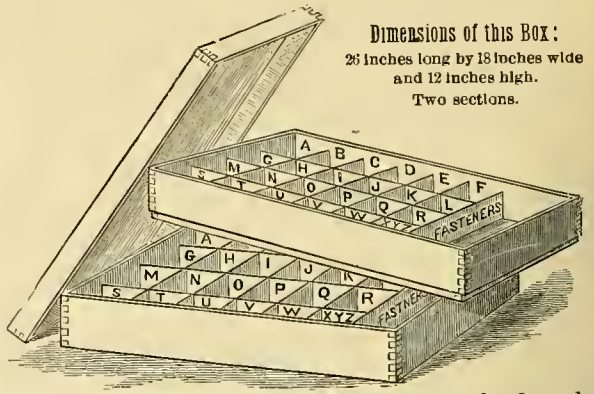
Greenhouse Material

from bottom of gutter up.

Correspondence solicited. Estimates cheerfully furnished.

LYMAN FELHEIM, ERIE, PA.





Dimensions of this Box:
26 inches long by 18 inches wide and 12 inches high.
Two sections.

With an order for 500 letters, we furnish a box made of wood, nicely stained and varnished, such as is represented in the cut.

BOSTON FLORIST LETTER CO.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1½-in. and 2-in. 2.00 per 100. Patent faatener with each letter.

OUR NEW SCRIPT LETTER, $4.00 per 100.

N. F. McCARTHY, Treas. & Mangr. | Address 13 Green St., Boston, Mass.

Address all correspondence to 1 Music Hall Place.

We have a new FASTENER which we consider a decided success. Any customers having old style fasteners which they wish to exchange, can do so without additional cost by writing us.

AGENTS:

A. Rolker & Sons, New York.
Marschuetz & Co., 25 N. 4th St., Phila., Pa.
F. E. McAllister, 22 Dey St., New York.
A. D. Perry & Co., 33 Warren St., Syracuse, New York.
Ernst Kaufmann & Co., 113 N. 4th St., Phila.
H. Bayersdorfer & Co., Philadelphia, Pa.
A. C. Kendal, 115 Ontario St., Cleveland, O.
J. A. Simmers, Toronto, Ont., Agent for Canada.
E. H. Hunt, 79 Lake St., Chicago, Ill.
Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.
H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.
T. W. Wood & Sons, 6th and Marshall Sts., Richmond, Va.
Jas. Vick's Sons, Rochester, N. Y.
C. A. Kuehn, 122 Pine St., St. Louis, Mo.
D. B. Long, Buffalo, New York.
C. F. Huntington & Co., Indianapolis, Ind.
Z. De Forest Ely & Co., 1024 Market St., Philadelphia, Pa.
Portland Seed Co., 171 2d St., Portland, Ore.

These Letters are handled by all the Wholesalers in Boston.

Immortelles, natural yellow, at $2.00 the dozen bunches; white, scarlet, purple, blue, pink and other colors at $2.75.

Hartford Fern, paper pressed, in papers of one dozen fine fronds with foliage, at $3.00 the dozen papers.

Maidenhair Fern, paper pressed, at $3.50 the dozen papers.

Cycas Leaves, (Sago Palm), natural prepared, equal to fresh cut in appearance, according to size at 40c., 45c., 50c., 60c. & 75c. each.

Holiday Baskets, Plant stands, Pot-holders, Metal Fern dishes and Jardinieres bowls, in rich and tasteful assortment.

Supplies of all Kinds, such as: Cape Flowers, Milkweed balls, Funeral Sheaves, Metal Designs, Moss, Wire, Tinfoil, Christmas Greens, etc., etc.; all quoted in our beautifully and richly illustrated new Trade List, mailed free. Address

August Rölker & Sons,

136 & 138 W. 24th St., P. O. Station E. New York.

CUTS!

WOOD ENGRAVING,
PHOTO-ENGRAVING,
WAX ENGRAVING,
ZINC ETCHING,
HALF-TONE,
DESIGNING.

MANZ & CO.,

183 Monroe Street, CHICAGO. ENGRAVERS.

TO TAKE PLACE OF WIND MILLS

HOT AIR PUMPING ENGINES

A Windmill

Is unreliable because it depends upon the elements for its power; hydraulic rams also depend upon favorable conditions and waste as much water as they secure. Steam pumps require skill and hand pumps demand labor and time. The

DE LAMATER-RIDER OR DE LAMATER-ERICSSON Hot-Air Pumping Engines

are especially designed for pumping water, and from shallow streams or any kind of well. They are simple, safe and reliable, require no steam and have no valves. They require very little heat to operate them, and can be arranged for any kind of fuel.

Send for illustrated catalogue to

THE DE LAMATER IRON WORKS,
87 South Fifth Av.,
NEW YORK, N. Y.

J. N. STRUCK & BRO.

Manufacturers of

• CYPRESS •

Greenhouse Material,

LOUISVILLE, KY.

HAIL LOCK THE DOOR BEFORE THE HORSE IS STOLEN. *DO IT NOW.*

JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

READ THIS.

JUST RECEIVED

a large Importation of

Immortelles,

with information of a drop in prices on the other side. Hence we offer Immortelles

NATURAL - - at $15 per case
ALL OTHER COLORS at $20 per case

We quote Cape Flowers, prime quality and weight, at

25c., 50c. and 75c. per pound.
Long stemmed Capes, $1 "

We are just unpacking a new importation of

FRENCH METAL WREATHS and DESIGNS.

They are very fine.

ON

WHEAT SHEAVES

we can beat the world in quality and price.

ORDER NOW.

H. Bayersdorfer & Co.,

56 N. 4th St.,

PHILADELPHIA, PA.

WHOLESALE ONLY.

HARD TIMES.

The so-called **hard times** have not affected us.

WHY!

Because we have been selling our goods at such low figures, for good quality, that our business has not been allowed to lag. We have **everything** in the line of

FLORISTS' SUPPLIES

and prompt attention to all orders has won for us our renowned reputation.

MARSCHUETZ & CO.,

23 & 25 N. 4th St., PHILADELPHIA.

KELSEY'S Galax Leaves and CALDWELL'S Christmas Greens
ALWAYS ON HAND.



Florists' Pins

Glass Heads, in Black or White.

PRICES:

1,	1½,	2,	2½,	3,	3½,	4 inches,
50c,	75c,	$1.00,	$1.25,	$1.50,	$1.75,	$2.00 per 1000

For Sale by

August Rolker & Sons, New York.
Wm. Elliott & Sons, New York.
H. Bayersdorfer & Co., Philadelphia.
N. F. McCarthy & Co., Boston.
E. H. Hunt, Chicago.
J. C. Vaughan, Chicago.
W. Ellison, St. Louis.
E. W. Crook, San Francisco.
S. Tidy & Son, Toronto, Ont.
Edw. Mullin, Kingston, Ont.

AUG. F. BRABANT, Manufacturer,
54 Warren Street, NEW YORK.
Mention American Florist.

ERNST KAUFMANN & CO.

Florists' Supplies,

113 N. 4TH STREET,
PHILADELPHIA, PA.

HUNTINGTON SEED CO.

Florists' : Supplies,

66 E. WASHINGTON ST,
INDIANAPOLIS, IND.

Standard Flower Pots, Dried Grasses, Fancy Baskets Metal Designs. Trade Catalogue mailed free.

THE PERFECT DRAINAGE

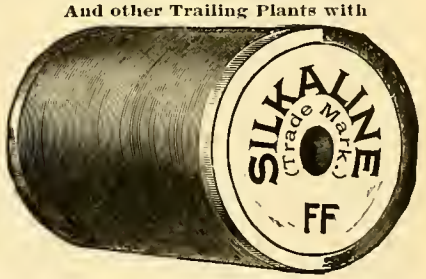
BENCH TILE

For circulars, etc., address

W. P. Wight, Upland Green Houses,
Send your business card. MADISON, N. J.

STRING SMILAX

And other Trailing Plants with



JOHN C. MEYER & CO.,
289 Devonshire St., BOSTON, MASS.
For sale by all leading Florists' Supply Houses.

FLORISTS' HOSE,

Made by E. W. Holt, member of the Society of American Florists.

Goodyear Rubber Store,
2 W. 14TH ST. NEW YORK.

Increase Your Business

by fostering an interest in plants and flowers among the people in your vicinity. You can best do this by getting subscribers to

GARDENING . . .
which tells people how to get the most satisfaction out of their gardens, and stimulates them to enlarge and extend their gardening operations.

$1.00 A YEAR is the subscription price of this paper, which is issued twice a month, is handsomely and truthfully illustrated, is thoroughly practical, absolutely free from wind and gush and grinds no axes for anyone.

SPECIAL LOW RATE to florists who will act as agents. We want an agent in every city and town in America. Write for terms now to

THE GARDENING CO.
Monon Building, CHICAGO.

St. Paul, Minn.

Florists report trade brighter and prices much better. Our friends "the mums" are bidding us good bye and making way for Christmas flowers. Altogether the mums have exceeded everybody's expectations financially and not a florist but that expects to increase his stock of them another year.

The boys who went to the World's Fair chrysanthemum show saw some "eye openers" in the way of fine flowers and a number of orders for stock plants of the prize winners have already been placed. Perhaps another year the Twin Cities will have a show of their own. The only obstacle to a successful show is the inability to pull together. Isn't it about time, my florist friends, to drop petty jealousies and work together?

Stock about town is looking nice though most roses are now "off crop," recuperating for Holiday trade. As a rule florists think Holiday prices will rule lower than for several years.

A visit to the city greenhouses at Como Park reveals a veritable little paradise. Not only are the houses of faultless construction, the heating and ventilating apparatus perfect, but the stock is in the very "pink" of condition, while the neat and orderly arrangement of everything is but another evidence of Superintendent Mussbaumer's watchful care and tireless energy.

Coleus, geraniums and other bedding plants are grown principally, though a few palms, etc, are also seen.

Chris Hansen is recovering from a six weeks battle with typhoid fever.

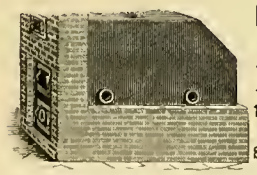
Alderman Warren's family is spending the winter south, while he is reading the "Reveries of a Bachelor" and trying to enjoy it.

James Souden, the genial superintendent of May & Co's. greenhouses is smiling over the advent of a third daughter.

E. F. Lemke would rather not have had the snow storm as it completely demoralized his hunting trip. FELIX.



GREENHOUSE HEATING
AND VENTILATING.
Superior Hot Water Boilers.
JOHN A. SCOLLAY,
74 & 76 Myrtle Ave., Brooklyn, N.Y.
☞ Send for Catalogue.



GREEN-HOUSE
HEATING,
MYERS & CO.
1518 & 1520 S. 9th St.,
PHILADELPHIA.
Send for catalogue and price list.

STANDARD FLOWER POTS.
Price List.

2 -inch,	Per 1000 $3.25	7-inch,	Per 100 $ 3 50
2¼-inch,	" 3.50	8-inch,	" 5.00
2½-inch,	" 4.00	9-inch,	" 7.50
3 -inch,	" 5.00	10-inch,	" 10.00
3½-inch,	" 7.25	11-inch,	" 15.00
4 -inch,	" 9.00	12-inch,	" 20.00
5 -inch,	" 13.80	14-inch,	" 40.00
6 -inch,	" 22.00	16-inch,	" 75.00

Terms cash, f. o. b. Address
HILFINGER BROS. POTTERY, Fort Edward, N. Y.
August Rolker & Sons, 136 & 138 W. 24th St., New York City, Agents for New York and vicinity.

D. H. ROBERTS,
159 & 161 South Fifth Ave., New York.
NATURAL GAS MADE GLASS,
for Rose Houses, Conservatories, etc., etc.

Mention the American Florist when writing to advertisers on this page.

H. M. HOOKER COMPANY,
57 and 59 W. Randolph Street, CHICAGO.
NATURAL GAS MADE GLASS,
FOR GREENHOUSES.
Write for latest prices.

"Standard" Flower Pots.
As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address
The Whilldin Potterv Company,
BRANCH WAREHOUSES: 713, 715, 717 & 719 Wharton St., Philadelphia, Pa.
Randolph Ave. and Union St., Jersey City, N. J.
Jackson Ave. and Pearson St., Long Island City, L. I.

STANDARD FLOWER POTS
Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.
A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.
We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.
Send for price list and samples and we know you will give us an order.
SYRACUSE POTTERY CO. OFFICE: 403 North Salina Street, SYRACUSE, N. Y.

STANDARD FLOWER POTS.
OLD RELIABLE MAKE OF
ELVERSON, SHERWOOD & BARKER.
Write for Catalogue and Price List.
PITTSBURGH CLAY MFG. CO. New Brighton, Pa.

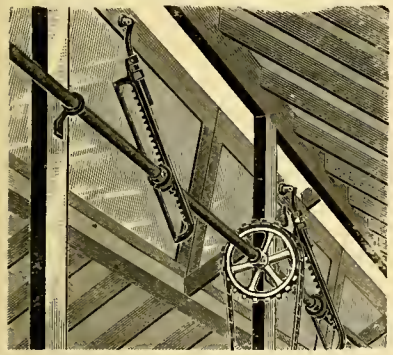
STANDARD FLOWER POTS
Our new **Pottery**, new **Machinery**, the very **best Clay** in the **Country**, and our new **Patent Kilns**, all combined, make the **best Standard Pot in the market.** Send for price list.
PARMENTER MF'G COMPANY,
GEORGE MESSINGER, Manager. East Brookfield, Mass.

FRENCH GLASS For CONSERVATORIES, ROSE HOUSES, Etc. Etc.
VANHORNE, GRIFFEN & CO.,
Importers of PLATE and WINDOW GLASS. Manufacturers of BENT GLASS and FRENCH MIRRORS.
131-133-135-137 FRANKLIN STREET, NEW YORK.
Note—Imported Glass is used in the best grade of Greenhouse building

ESTABLISHED 1866.
FLORISTS WIRE DESIGNS
MANUFACTURED BY
N. STEFFENS
335 EAST 21ST ST. NEW YORK.

SEE HERE BROTHER FLORIST!

Aren't you tired going through your houses two or three times a day year after year and lifting your ventilating sash one at a time and propping them up with sticks or pots, with a chance of having sash blown off and broken glass to pay for? If you are



We have got just the thing you need, the **NEWEST** and **BEST** thing out. "The New Departure" for **about half** the cost of the old style. Send for Descriptive Catalogue to

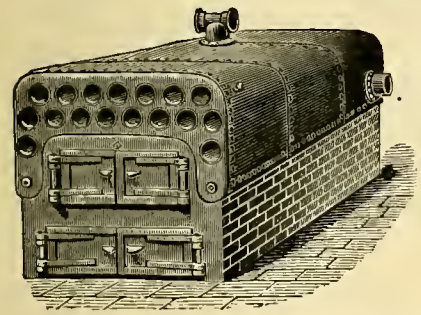
J. D. CARMODY, Evansville, Ind.

ESTABLISHED 1854.

DEVINE'S BOILER WORKS.

THE FLAT TOP TYPE

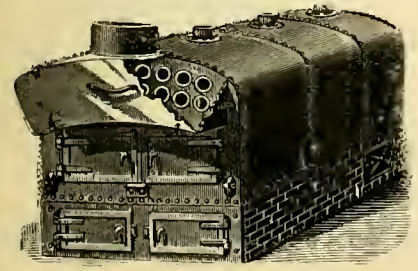
Wrought Iron Hot Water Boilers



Capacity from 350 to 10,000 feet of four-inch pipe.
SEND FOR NEW LIST.

FRANK DAN BLISH, Att'y,
OFFICE, 189 STATE STREET.
WORKS, 55th & WALLACE STREETS.
CHICAGO.

KROESCHELL BROS.
IMPROVED
Greenhouse Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.



Mention American Florist.

THE "LOCKLAND" Sash Bars

ARE ALWAYS SATISFACTORY.

This cut represents our Improved Clipper Bar for Butted Glass roof. **No Putty required.**

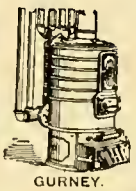
GUTTER MATERIAL, RIDGES, SASH, ETC.

The finest CLEAR CYPRESS used.

For circulars and estimates ADDRESS

LOCKLAND LUMBER CO.
Lockland, O.

Gurney



GURNEY.

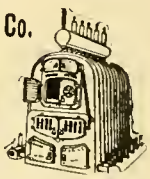
Best for Greenhouses.

Our illustrated book "How best to Heat our Homes" gives the reason why. We send it free.

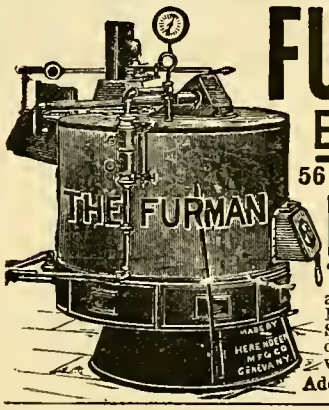
THE BEST IS CHEAPEST.

HOT WATER HEATERS AND RADIATORS FOR HEATING Dwellings, Public Buildings, Etc. BY HOT WATER CIRCULATION.

Gurney Hot Water Heater Co.
HEAD OFFICE:
163 Franklin St., Boston, Mass.
BRANCH OFFICE:
59 Wabash Ave., Chicago, Ill.
SELLING AGENCIES:
Johnson & Co., 71 John St., New York.
J. C. F. Trachsel, 246 Arch St, Philadelphia.



DOUBLE CROWN.



FURMAN BOILERS
Economical — Substantial — Safe.
56 STYLES AND SIZES—BURNS HARD OR SOFT COAL.
Modern Hot-Water Heating

These Boilers have a high reputation for Staunchness, Durability and Safety, and are **GREAT COAL SAVERS.** Minimum Friction and Maximum Velocity only obtained by **VERTICAL WATER CIRCULATION.** Send for new 150-page book giving full particulars and a great deal of valuable information on modern Heating and Ventilation, with plans and tables for correct hot-water work. Mailed free.
Address **HERENDEEN MFG. CO., 26 Vine Street, GENEVA, N. Y.**

VICTORY! VICTORY! VICTORY!

The only Certificate of Merit awarded for ventilating apparatus at the St. Louis Convention was to the

POPULAR STANDARD VENTILATING MACHINE

The florist's friend in working and prices.



No repairs for 5 years. no chains to break as is the result with others.

Opens Sash uniform on 100 foot houses. A new device.

Send for Catalogue and Estimates.

E. HIPPARD, Youngstown, Ohio.

THE CHAMPION Automatic Ventilator.

The cheapest, easiest to operate, and by far the **best machine** in the market. Don't buy a Ventilator until you have seen my illustrated descriptive circular, which will be sent you free, giving prices, etc. Also **Champion Soil Pulverizer and Sifter.**

Address, **E. E. WOLF,**
Box 114. SPRINGFIELD, O.

Mention American Florist.

EVANS' IMPROVED
CHALLENGE VENTILATING APPARATUS

Write for Illustrated Catalogue.
QUAKER CITY MACHINE WORKS, Richmond, Ind.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Index to Advertisers.

Adv. Rates, etc 442
Baller F A 446
Barnard W W & Co444 445
Bayersdorfer H & Co ..449
Bay State Hdw Co.....448
Berger H H & Co.....444
Bonsall Jos E & Son ...453
Boston Letter Co 448
Brahant Aug F.....449
Brackenridge & Co.....441
Brague L B.....445
Brand & Wichera.....445
Brauer & Richter.... 447
Brown & Canfield.....446
Burna & Raynor.....443
Burrow J G.....446
Carman R W.....444
Carmody J D..... 451
Chicago Floral Co..... 447
Cook W C & Co. 447
Corbrey & McKellar...442
Deamud J B & Co.....442
De Lamater Iron Wks.448
Devine's Boiler Wks...451
Dillon J L.....446
Dreer H A.....444
Elliott W H.....442
Elllson Wm.....442
Ely Z De Forest & Co. .444
Felheim Lyman.....448
Felthousen J E.....445
Floral Hill Nursery .. 441
Forstermann J. 441
Gardening Co The.... 449
Gibson J C.....446
Goodyear Rubber Store 449
Griffith N S.....447
Gurney Heater Co 451
Hall Ass'n.....448
Hammond Benj.....444
Hancock Geo 446
Harold J H.....445
Hart James.....443
Hart Michael A.....443
Hart & Crouse.....452
Hartford H E.....445
Herb Peter.....447
Herendeen Mfg Co.....451
Herr Albert M.....446
Hews A H & Co.....450
Hilfinger Bros.....450
Hill E G & Co.... 447
Hippard E.....451
Hitchings & Co.....452
Hooker H M Co.....450
Horan Edw C.....443
Huehner H.... 447
Hulsebosch Bros.....444
Hunt E H..... 443
Hunt M A..... ..444 446
Hunter Frank D.....443
Huntington Seed Co...449
Jennings E B.....447
Joosten C H.....446
Kaufmann Ernst & Co.449
Kennicott Bros Co.....443
Koffman E 442
Kroeschell Bros ..451
Kuehn C A..... 442
Kuhl Geo A. 442
La Roche & Stahl.....442
Lockland Lumber Co...451
Long Dan'l B.....442
Lonsdale Edwin....441 446
Lord & Burnham Co...452
McCarthy N F & Co....453
McFarland J H.....441
McFarland J H Co.....444
MacBean A S.....441
Mann Bros.....447
Manz J & Co.....448
Marschuetz & Co.....449
Meyer John C & Co ...449
Michel Plant & Bulb Co 444
Millang Bros.....443
Moffatt G J.....444
Moninger Jno C 452
Murray S..... 440
Myers & Co.....450
National Plant Co.....442
Neff L I.....445
Oelschig A C.....444 445
Ouwerkerk P.....445
Pabst Theo & Co.....444
Parmenter Mfg Co.....450
Pennock C J..... 446
Pennock Sam'l S.....442
Pierson F R Co.....441
Pittsburg Clay Mfg Co.450
Quaker City Mach Co..451
Randall A L.....443
Reed Glass Co.....448
Reinberg Bros.....453
Roberts J H.....450
Roehrs Theo.....443
Roemer Fred.....445
Rolker A & Sons.....448
Rupp John F.....441
Sander & Co 441
Scollay John A. 450
Scott Alex.....446
Seaver A H.....447
Shelmire W R.....447
Sheridan W F.....443
Siebrecht & Wadley.....441
Situations, wants. 440
South Side Floral Co..447
Starr Chas T.....442
Steffens N. 450
Streby S O 447
Struck J N & Bro.....448
Sunderbruch H L.....442
Sunset Seed & Plant Co444
Sutherland Geo A 443
Swayne Edward.....446
Syracuse Pottery Co...450
Tricker Wm... 446
Van Horne Griffen & Co 450
Vaughan J C..... 445 447
Weathered's Sons T W.452
Weeber & Don.....444
Welch Bros 453
Whilldin Pot Co 450
Whitton Stephen.....441
Wight W P... 449
Wisconsin Flower Ex..445
Witthold Geo. ge.....446
Wolf E E 451
Wood Bros.....445
Woodruff W B.....441
Young John..... ...443
Young Thos Jr.....442

HARTFORD, CONN.—At the annual meeting of the Hartford County Horticultural Society on December 7 the following officers were elected: President, John W. Crane; vice-presidents, W. B. May, John Coombs and B. E. Beemer; secretary and treasurer, E. S. Young. The annual report of the secretary showed that the recent chrysanthemum show netted a profit of over $200. The next exhibition will be given on March 22 and 23.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

CYPRESS GREEN HOUSE MATERIAL

CLEAR

CY

SASH

BARS

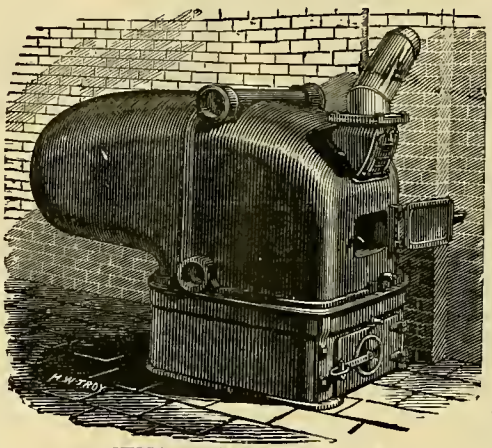
HOT BED AND VENTILATING SASH

JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

GoodelHH
Mass Agri Col
15 Dec 93

GREENHOUSE HEATING AND VENTILATING

Horticultural Architecture and Building.



HITCHINGS & CO.

Established 1844.

233 Mercer St., New York.

FIVE PATTERNS OF BOILERS.

NINETEEN SIZES.

Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc., of Iron Frame Construction, Erected complete, or the Structural Iron Work shipped ready for erection.

Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Top.

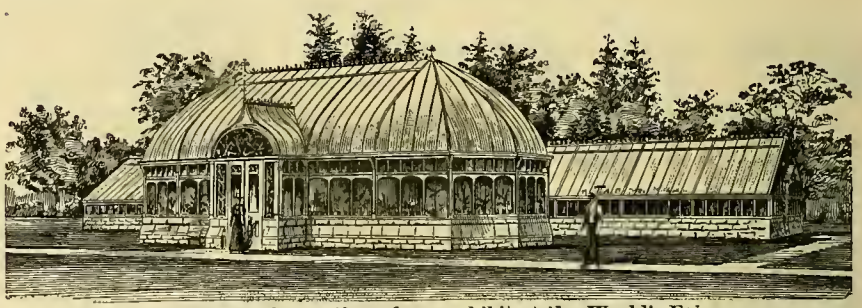
SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.

LORD & BURNHAM CO.

Horticultural Architects and Builders,

STEAM AND HOT WATER HEATING ENGINEERS.

☞ Plans and estimates furnished on application.



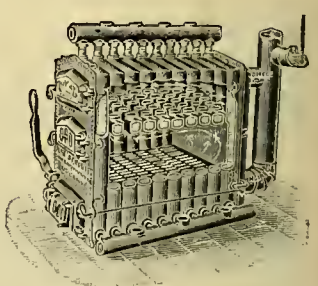
Front view of a portion of our exhibit at the World's Fair.

. . . SEND FOUR CENTS POSTAGE FOR ILLUSTRATED CATALOGUE. . . .

LORD & BURNHAM CO., Irvington-on-Hudson, N. Y.

ROYAL HEATERS

The right kind of Boiler in a greenhouse means success with flowers.



HART & CROUSE,

UTICA, N. Y.

THOS. W. WEATHERED'S SONS,

INCORPORATED.

Horticultural Architects and Hot Water Engineers

Send for Catalogue, enclosing 4 cents in stamps.

No. 244 Canal St., NEW YORK CITY.

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. IX. *CHICAGO AND NEW YORK, DECEMBER 21, 1893.* *No. 290*

THE AMERICAN FLORIST

Copyright 1893, by American Florist Company. Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.
322 Dearborn Street, Chicago.

Subscription, $1.00 a year. To Europe, $2.00.

Address all communications to

AMERICAN FLORIST COMPANY.
P. O. Drawer 164, CHICAGO.

Eastern Office: 67 Bromfield St., Boston.

SOCIETY OF AMERICAN FLORISTS.

WM. R. SMITH Washington, D. C., president; PROF. WM. TRELEASE, St. Louis, Mo., vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass, secretary; M. A. HUNT, Terre Haute, Ind., treasurer.

The new officers, to be installed Jan. 1, 1894, are: J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; secretary and treasurer the same as for 1893. The next annual meeting will be held at Atlantic City, N. J., August, 1894.

CONTENTS.

Seasonable hints 453
Roses—Clothilde Soupert for forcing 453
Carnations—Notes 454
—Chicago carnation growers 454
—Nomenclature committee 456
—A proposition worth considering. 456
Dinner table decoration at N. Y. show (illus) . 455
Chrysanthemums—Colors under artificial light 456
—Chrysanthemum Golden Wedding 457
—Chrysanthemum Mutual Friend (illus). . . . 457
—Notes 457
Palm notes 458
New York 458
Boston 458
Philadelphia 459
Buffalo 459
Corner at Sioux City chrysanth. show (illus) . 459
Chicago 460
Lancaster, Pa 460
St. Louis 460
Washington 461
Worcester, Mass 461
Germantown, Pa 461
News notes 461
The seed trade 464
Rooting cuttings of conifers 466
Phyllotænium Lindenii 468
Toronto 470

THE BOOK "How to grow cut flowers" published not long ago by Mr. M. A. Hunt, Terre Haute, Ind., has sold so well that a second edition has become necessary. The quick sale of the first edition shows that the trade is not slow to appreciate a really valuable addition to the literature of the profession. While it is true that there is no room for the theoretical balderdash too often offered by men who know just sufficient to advertise their own ignorance, any work of real value written by a thoroughly practical man and so as to convey instruction of honest worth will always find a welcome.

FREDERICK, MD.—C. Hermann has added a new greenhouse. In addition to conducting his florist business he now has charge of St. John's Catholic Cemetery.

Seasonable Hints.

There are several lots of cuttings that are best propagated as soon as you have the space and time. That useful plant Abutilon vexillarium that roots so indifferently in the fall will now root as easily as a verbena. Put in the tops of the young plants or the tender shoots of old plants if you lifted any.

Another useful plant for either flower beds or boxes, vases, etc. is anthericum (the California soap plant). The plants you lifted in the fall will now have sent up a lot of flowering stems, and from the joints of these stems any number of young growths can be got for cutting. Put them in the sand and they will send out their fleshy roots in a very few days. It is none too early to start them now—to have good sized plants by the end of May.

I am putting in lobelia cuttings from the few old plants lifted in the fall; these make much better plants for veranda boxes than those raised from seed.

This is the season when the conditions are most favorable for propagating almost all plants except perhaps those requiring the highest temperature. Carnations root very easily now and of choice kinds that you want to grow an increased quantity of it is no use to delay. I believe the ideal bench for them is where the heat of the house is kept as near as possible at 50° and the sand at 65°, but I am trespassing on other people's ground and must leave that subject to a specialist.

There are a few seeds that should be sown soon after New Years. Among them Centaurea gymnocarpa. Sow Crozy cannas at once. They will then be in bloom at planting out time, and many more can be sold if they are seen in flower. Don't forget to soak the canna seed a day or two and slice off a small piece of the hard shell. Good sharp clean sand for a covering of the canna seed is better than soil, for many times the young plants when an inch or so high are carried off by anthracnose, commonly called fungus of the cutting bed.

Very frequently the young smilax plants are not sufficiently strong when planted out in July. They should get a good growth in a 3-inch pot before they are planted out and then the first growth made after they are in the bed will make strong strings. Therefore sow early in January.

You are liable to receive your roots of gloxinias and tuberous rooted begonias at any time now, either from Europe or our own dealers. Put them in flats covered with some perfectly dry earth and keep in a moderately warm shed or cellar. You don't want them to start yet. The demand for the begonias is likely to be better than last year. Millions, or at least thousands, of people saw some grand beds of them at the World's Fair and in every city there were fine displays of them.

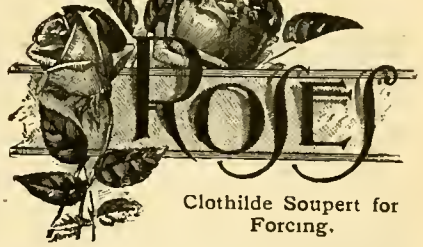
Those who want hydrangeas in flower for Easter must get them up from their resting place under the bench and start them going. They will want to be rushed along to get there in time for this very early Easter. I would advise not to try too many hydrangeas for Easter, for they are not the most satisfactory plant at that date and they come in competition with many other showy plants that are much easier grown for that occasion.

Don't delay a day after New Years in getting in your Spiræa Japonica from outside. They will want every day of the time to be in good bloom for Easter. Remember they will stand a deluge of water, but won't submit to any fumigating. Aphis don't trouble them, so grow them where you have no occasion to smoke, or cover thoroughly when you do.

The pot-grown lilacs that are imported nowadays force very easily. Bring in a few from the cold pit every week. In a temperature of 60° at night they are in good flower in six or seven weeks.

When you cut and sell all your sweet stevia (S. serratifolia) at Christmas time don't forget to save one-half dozen plants. Down on the edge of the path is good enough for them for a month or two. This common flower will it seems be always useful and seldom any retail florist has a surplus of it. WM. SCOTT.

Buffalo, December 18.



Clothilde Soupert for Forcing.

Isn't she a little beauty though! Some of our most valuable goods come in small parcels, don't you know. Soupert is a diamond of the first water! As a summer bedder it is par excellence, and for spring sales sells at sight. Also an ideal Easter pot plant. So get in shape for Easter. Pot up year old plants late in the fall, keep dormant until about four to six weeks before Easter and it will come along full of buds and bloom, a thing of beauty, a charm all its own, "worth the money" too—"That little rose you sold me gave me more satisfaction than anything I have had in a long time."

But I am speaking now more particularly as to its forcing qualities. It will stand as much fire heat as Meteor, but requiring a less close atmosphere; will grow and do well though most anywhere. It is something of a "cropper," yet never without bloom and lots of it

too. Some flowers come all white, others purely pink, and again the prevailing type—white, pink center—while it is as fragrant as our grandmother's roses damask, cabbage or hundred leaf rose in common parlance.

Another good quality is that it keeps well as a cut flower. It is well liked by connoisseurs and gives special character to design work. A rose the size of American Beauty is not *always* wanted, and is out of place sometimes; so it is with the big chrysanthemums. Dainty prettiness and sweetness frequently rule the day a la violets.

"Sweeter than the lids of Juno's eyes,
Or Cytherea's breath."

Some of our big flowers, like certain people we know, are disposed to crowd all else one side and are surprised, not to say disgusted, that modest merit should occasionally take precedence. What a difference the point of view *does* make, to be sure! Even a great big sunflower doesn't cover *all* the ground.

Ye judges, one and all, be a little "aisy"; wisely consider adaptability. Of course we don't expect you to make "a whistle out of a pig's tail," but kindly admit even a piggy's tail serves a purpose; note its graceful little twist—but "yank" it if music (?) is what you're after.

GROVE P. RAWSON.

[Mr. Rawson sent with the above notes a box of two dozen blooms of Soupert and they certainly were worthy of all praise. In many cases there were two blooms to a stem. The stems were longer than when grown out of doors and were stroug enough to carry the flower gracefully, but without stiffness. The flowers stood the long shipment well too, much better than would naturally be expected where many flowers were fully open. While probably it would not pay to force Soupert for sale through the dealer those who retail the flowers they grow would surely find it useful.—ED.]



Carnation Notes.

Did you ever hear two carnation growers talking about them and agreeing on any number of the cultural points? I don't think you did, and what is more you never will. We explain this very easily by ascribing it all to the difference in the soils, and I suppose that is the principal reason for this unfortunate state of affairs.

I was talking with a party the other day who had just come from some of the crack growers around N. Y. City. He said he would not dare to grow his carnations as soft and watery as they did, for theirs would not stand the handling his carnations had to stand. The New York grower is right to give his plants extra high culture and produce large flowers on long stems even at the sacrifice of a little in substance, as his flowers can be in the consumer's hands by noon of the same day they are pulled. On the other hand the grower who has to send his flowers on a twenty to thirty hour trip before they even get to the store men has to sacrifice a little in the size for the sake of getting them harder and more able to stand rough usage.

In conversation with a Chester county grower I found that he had the best (quite the best) results from plants that were planted in late. My experience is exactly the reverse; those that I planted in early in September could not be doing or looking much better; those that I planted in October are away behind in every respect. He has a perfect right to advocate late planting; I have the same right to advocate early planting; and so one could continue on indefinitely. There is only one thing to learn from this, and that is to make your own carnation notes. Make them once a week or once a day as the case may be, and read those of others; you may occasionallv pick up a good idea that will be practical to you.

None of us know very much about carnations. I confess to knowing very little. Sometimes one thinks he has made a discovery that will be valuable for the next season, and the next season it may prove practically valueless. A, to me, rather singular incident is now transpiring in my Daybreak houses. There is a bench 100x3 that was filled with very poor soil and never received any manure, as we did not have quite enough to reach. The idea was to fertilize it with either liquid manure or bone meal, but as often happens this was not attended to in the rush of fall work, and they started off so nicely that I concluded to await developments before manuring them. They have received nothing yet and are now making me the finest Daybreaks I am cutting; fine large flowers with long and strong stems and a much finer color than those that are planted with manure, and in addition to their being better in every other way I never had such solid flowers and such good keepers. This might be construed as in favor of growing Daybreak in poor soil, and if they do as well the season through as they are doing now I may try it more extensively next season, yet I would hesitate to advise any one else to do so, as it certainly does not look like a natural result to expect.

There is one thing we can all agree on at this present time, and that is not to store any carnations in cellars or boxes with the idea of getting big prices over the holidays. Keep cutting all that will not keep and send them to market. It is a serious mistake made by some growers to hold back almost everything possible for Christmas. When they come to pull for that time a lot of flowers are put in that are not fit to sell, and yet they expect the store men to give them full price for the whole lot. This is all a mistaken idea and works injury to the carnation trade in general.

It is far better to have your flowers good to extra good and then ask a good price for them. You have not been making a fortune up to date, and now is your chance to get a little laid by for the dull times coming. It puts a far better tone to the market to ask a good price for real good stuff than to sell a secondary lot of it for much less, and there are often flowers sold that should go nowhere but on the dump. It has happened frequently that there were so many flowers held back for Christmas that when Christmas came there was a glut and the market went all to pieces. It is in our power to avoid this if we cut our crop regularly right along up to one week before Christmas, and then cut all the old flowers out and dispose of them. By old flowers I mean those that would begin to look a little seedy by the close of the week.

A. M. HERR.

Chicago Carnation Growers.

We started this week on a tour of investigation among our local growers in order to ascertain what is going on at the different establisnments who mainly supply our home market, and note anything of probable interest to our readers. Starting with the north side, let us pay a visit to the establishment of Mr. Chas. Hartwig, a well known grower of carnations and roses, a man of large and varied experience, whose views on carnations especially should be of interest and value.

That Mr. Hartwig knows something about carnations is evident as soon as we look at his plants. The stock is as vigorous and healthy as one could wish. The houses, three-quarter span, 20x100, were built last spring, and are well appointed in every way. All the stock is grown on benches, there being plenty of head room; the benches are raised up pretty well from the ground, thus giving plenty of air and good light.

"What variety," we asked, "do you consider the best for red?"

"I still stick to the old and well tried Garfield. I find it the most satisfactory sort for my soil and locality. Of course it is not the ideal red by any means; there are some drawbacks. In the first place, it is rather late, as we all know; it is later even than usual this season with me, but the fault is probably as much my own as that of the carnation. I pinched it back a little too late, and as a consequence will not be able to bring it in with full crop for the holidays, and then this variety is also a bad cropper.

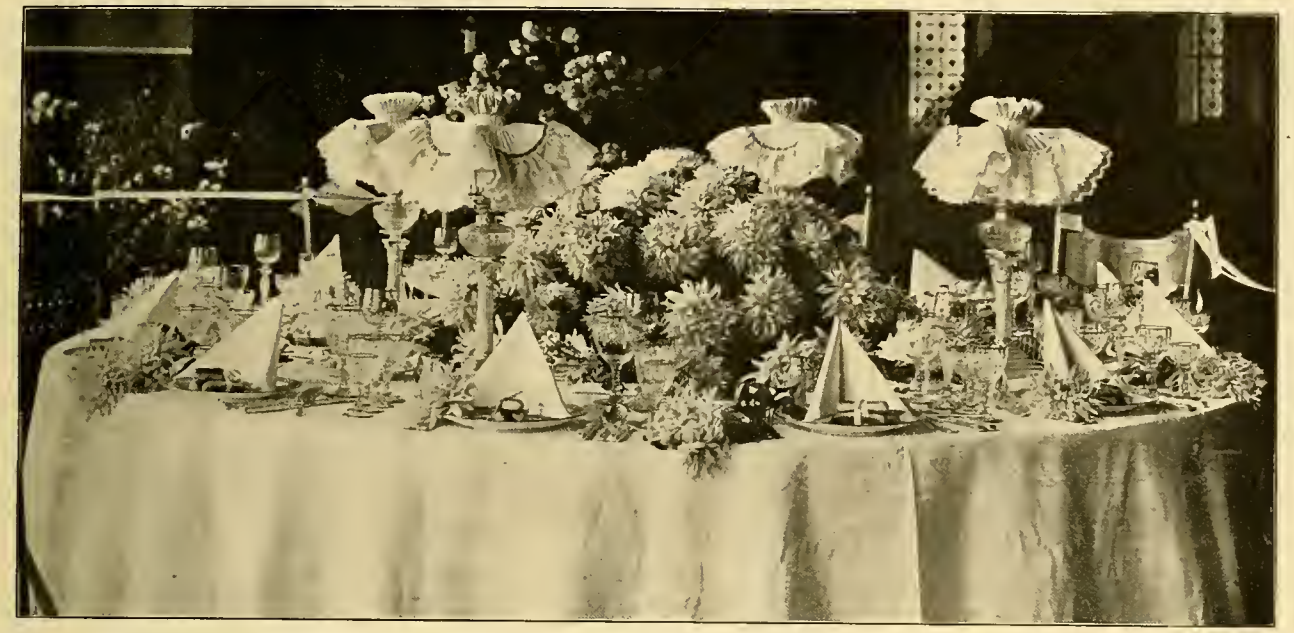
"Portia? Well, I have tried it, but the result has been disappointing with me. The flower, though of good form, is too small. I have tried Fred Dorner and other sorts with rather poor results, so at present I confine myself to Garfield.

"In white I mostly grow Silver Spray; I consider it one of the best for market, good strong stem, pure white and of good keeping qualities. It is apt to burst the calyx with me at times, but not badly. Here is a small batch of Puritan which I am giving a trial. The plants look strong and vigorous and are full of buds, but it looks to me to be too much of a cropper to suit me. There is also a small lot of Governor Russell which doesn't suit me, but before I pass an opinion I'll give it a little further trial."

"You used to grow Hinze's White extensively."

"Yes, but I have discarded it altogether. It is fine for late winter and spring, but of little value for fall and mid-winter, and then it isn't a clear white. Mrs. Fisher and Lizzie McGowan I tried, but couldn't do much with them. I shall give Uncle John a trial next year. To judge by what I saw of this variety at our late exhibition, it will be valuable. It appears to be a sturdy grower, is of good size and form, pure white and a remarkable keeper.

"Of the pink varieties, I grow Daybreak largely. I can do this variety better than any other. I have tried Grace Wilder, but it is of no use to me. My soil is evidently too light to suit this variety, for I have seen this sort grown very fine by a friend under the same treatment I gave mine, but his is a rather heavy clay loam. I am trying this year both Edna Craig and Nancy Hanks; you see them growing on this center bench side by side. I am inclined to think that Nancy Hanks will suit me best. It is a stronger grower apparently and the color of bloom is more even than Craig. But I can hardly judge as yet which may



DINNER TABLE DECORATION BY WARENDORF BROS. AT THE NEW YORK SHOW.

prove the better. I bought the plants this fall and until I propagate my own stock and grow it it wouldn't be safe to pass an opinion.

"The new sort Wm. Scott strikes me to have great merit and I shall try it next season. Also the variety not named yet, grown by the late Nicholas Singler of Washington Heights. I consider it an improvement on Daybreak. It is not quite so double, and opens more freely in cloudy weather. The color is nearly the same, but does not have the tendency to fade out into almost white, as you see some of my Daybreaks."

"What is your opinion of Adelaide Kresken as you saw it at the show?"

"I think it worth a trial. I rather like its appearance.

"Tidal Wave I have always grown in quantity and it is one of my favorites. It never has disappointed me yet. I consider it the best paying sort on the place. Of course in the first part of the season you will have to sacrifice a good many buds, as these appear in great clusters on the first flowering stems, but later on it behaves better."

"Do you ever disbud your carnations?"

"No; I don't think it pays. It takes a good deal of time to disbud a house and I hardly think we could get enough more on the market for the flowers to pay for this extra expense. I find that my stock sells more readily when I can show a good many buds in a bunch with the flowers."

"What effect did the long and severe drought of last summer have on your stock, and did you water during that time?"

"I noticed no bad effect on my plants except that the stock was somewhat smaller than in former seasons. Water? Yes, I kept the sprinkler going day and night. If I had not I doubt if I could have saved a single plant. My soil you see is a sandy one and the subsoil is of such a nature that the water passes through it like a sieve.

"Do I plant out my stock on the same piece of ground every year? Why, yes. It is Hobson's choice with me. My domain is rather limited and I can't help myself, but really I don't see any difference in the size and vigor of my stock of today and 6 years ago, when I first moved onto this place. Of course I manure the ground quite heavily every year with well rotted cow manure. I made the mistake once of using fresh manure, which cost me the better part of a season's crop."

"What kind of soil do you use in planting your carnation houses?"

"I use the old rose soil on my carnation benches—a mixture of clay loam and manure."

But let us see what the rest of the boys are doing, so we will say au revoir to our cordial host and take a peep at Mr. Naslund's place, just over the line in Ravenswood, and about a mile west of Mr. Hartwig's.

Mr. Naslund also has made his mark in growing carnations, and his houses are well worth seeing. But let us compare notes and see how far our friends' experience may agree on the subject of carnations. The first house we enter is filled with Garfield looking very strong and healthy, but as at the former place, very backward. The main crop will probably not be in until January. Mr. Naslund too regards Garfield as the best red and grows it quite heavily. He has two houses 100x18 filled with it, but he has a batch of Portia that look very fine. These are planted on a bench that has been piped for forcing; the plants seem to be relishing the heat and are flourishing. There is a great wealth of bloom of extra size and color.

In whites we find a fine looking house of Silver Spray, a mass of buds and flowers, but badly split, more so than we ever saw this sort before. And then there is a fine looking side bench of Puritans just coming into bloom. This variety here shows the same tendency to come in crops, but the flowers are perfect and there is no bursting of the calyx in any of the blooms.

Tidal Wave also looks well here and promises a fine crop.

"But now," says Mr. Naslund, "I want to show you my house of Daybreaks and see what you think of them." The plants looked certainly well enough; growth strong and vigorous and covered with buds and blossoms, but by looking at them a little more closely we could not fail to notice that the leaves on the lower parts of the plants were shriveled and looked as if they had been burnt. "The effect of red spider," observed Mr. N. "The plants were almost eaten up last summer by this little pest. I set out as fine a lot of young stock of this kind last spring as one could wish to see. They grew finely until the dry spell set in, and then the spider took hold. I had no means of attacking the enemy, for I could not water or syringe for want of proper facilities. I thought at one time the whole stock was destroyed; it was the measliest looking lot of stuff I ever saw. I had stock enough to fill two houses, but was afraid to even risk one house with them, but you see they came out all right after all. Oh, there is no doubt the plants suffered and they are not as good as they would have been. Yes, my soil is a trifle heavier than Mr. Hartwig's and somewhat lower; besides, there are no sewers near my place yet to carry off the water so freely. For these reasons my stock kept alive without water, but the plants were not nearly so large as those we grew last year. The ground was as dry as an ash heap when we lifted them this fall and of course every particle of soil shook off from the roots, but nevertheless the plants did very well as soon as we got them into the houses.

"Yes, I prefer the bench system for carnations. I think that by using a heavy soil I can carry my stock until late in the spring in as good condition as if I planted in solid beds, and in midwinter when flowers are of the most value I get better results this way.

"Yes, I tie up my plants as soon as they begin to grow after being benched, all but the Tidal Wave, this latter sort being of dwarf and stocky growth doesn't need it in my opinion, and so I let it grow without support."

"What is your opinion of Grace Wilder and some of the newer sorts of pinks?"

"Well, Grace Wilder is a good producer, but I doubt if it would pay me to grow it on my soil. I have only tried it in a small way, but find it rather unsatisfactory; it bursts the calyx badly with me and the color runs too uneven. I have a small batch of Edna Craig; the flowers are large, but it fades out badly. But I shall keep on trying the new sorts as they come out until I find something that suits me."

"But now let us take a look at your rose houses, Mr. Naslund." The first house we enter is filled with Perles that appear to be in splendid condition. "This house," remarks Mr. N., "was not planted until the middle of August, in fact all of my roses were planted very late. You will notice here and there a bullhead in this house of Perles, but on the whole I am satisfied with it." And well he might be. The stock couldn't look better. This can be said also of the house of Mermets and Brides. There is one mass of buds all over the beds. The Beauties though look rather poorly, and La France and Wootton are but indifferent.

And now we go about half a mile still farther west until we strike Mr. A. Harms' place. Mr. H. grows mostly carnations and has four houses of them 100x18 and 20. The soil on this place is different from that at the first two establishments and consists of a light clay loam. No great trouble was experienced in growing the stock through the summer on account of the drought. The plants were considerably larger, but did not seem to thrive as well as the former after being housed.

Silver Spray looks rather indifferent and so does Tidal Wave. Grace Wilder is the best of the lot and looks fairly well, although the flowers are badly split. Lucy Singler is grown for red and looks well. Mr. Harms prefers this sort to Garfield; he reports it a good seller in the market, the color is lighter than Garfield and of a shade that might be described as a brick red. The first batch of yellow we have so far noticed is Golden Gate, which looks poorly, the blooms being all crippled.

Nomenclature Committee.

We have now prepared a circular that we wish to have in the hands of every carnation grower who houses 1,000 or more plants. It will prove interesting reading to you, and you can be of great assistance to us if you will kindly drop a card, giving name and address of yourself or any other grower you know of, to Albert M. Herr, Lancaster, Pa., L. B. 496.

ALBERT M. HERR,
JAS. G. HANCOCK,
ALEX. McBRIDE,
S. LENTON,
E. J. VANREYPER,
} Committee.

A Proposition Worth Considering.

That the American Carnation Society offer a prize valued at not less than one hundred dollars ($100), to be competed for at the regular annual meetings of the society in February, for the carnation which is awarded first honors *three years in succession* and for *one flower* only to be set up for competition. It takes at least three years, and four is better, to determine whether a seedling is worth perpetuating or not, so that it would be all in the line of improvement of the carnation, and the most meritorious variety would get the recognition to which it was entitled at the end of the three years.

E. L.

PLEASE WRITE on your printed letter head when addressing our advertisers. If you have no printed letter head, then enclose your business card or bill head.



Chrysanthemum Colors Under Artificial Light.

As the chrysanthemum when "on duty" is mostly seen after sundown under artificial light it is interesting to note its colors, which in a number of cases undergo a radical change—and I may add for the better.

The daylight magenta tones are almost obliterated under incandescent electric light; I am sorry for this, as magenta is a lovely color which we neither appreciate nor treat properly in conjunction with other commoner hues. But if magenta fails at night yellow, orange, red and pink do not. The effect under artificial light of a grand exhibition of large chrysanthemums is more beautiful than in daylight; but every vestige of blue goes under the yellowish light, and a great deal of the yellow goes along with it. One would naturally suppose that a *yellow* light on *yellow* color would make the latter look yellower; as a matter of fact it does; but facts and appearances are two very different things in regard to color. The yellow chrysanthemum in order to prove itself yellower under yellow light must have completely black surroundings, devoid of any light except that thrown on the flower, or else pure white light must illuminate everything else. Now, both of these conditions in the natural course of things are practically impossible; consequently the actual truth of color is overpowered by reverse appearances. Yellow light is thrown on everything; we entirely forget what white light is (at least our eyes do), and as a natural result a good deal of *yellow* stands for *white*. We know how common the remark is, "That will look a great deal yellower in the daytime." Such a remark is equivalent to the admission that we mistake considerable yellow for white at evening light.

Notwithstanding this admitted loss of color somehow the yellow chrysanthemum is prettier under gas-light. We also forget the variety and play of color in daylight among the red flowers which are more or less influenced with blue, and are only conscious of the fact that the reds are more brilliant when the gas is lit. Orange is also a color greatly enhanced by yellow light.

In a word, the whole tone of the chrysanthemum show has undergone a change when the evening lights are on. We feel this without exactly being able to account for it. This difference consists in just these two facts: at night every color becomes soft and brilliant, but loses in variety of tone; in daytime every particular tint asserts its separate individuality; but there is a coldness in its appearance accounted for by the fact that blue is exerting an influence, although not actually present in pronounced form.

In the list which follows of many new flowers, all of them particularly attractive under the incandescent light, I have mentioned magenta several times; I do not wish to be understood as saying that this color is destroyed by yellow light; it is not, but it undergoes a complete change and appears delightfully soft and æsthetic; at the same time the blue-red color is robbed of its individuality. Solferino I must define as a very near relative of magenta, but paler in tone and more nearly allied to crimson.

Mrs. Bishop. Pure unbroken yellow; a monotone.

Golden Ball. Golden yellow nearly a monotone.

Mrs. Hicks Arnold. Glancing golden yellow, orange in the depths.

Marguerite Jeffords. Golden yellow, with a fiery orange in the depths of the incurved petals.

Harry May. Golden yellow like Marguerite Jeffords, but with more play of color, as the petals are not so closely set; but it is not refined in tone as is the other flower. The inside depths are flame orange and the outside of petals is dullish yellow. The foliage is a beautiful bronze green.

Golden Wedding. Yellow leaning toward golden yellow, rich in surface color, and decidedly golden in the depths.

H. L. Sunderbruch. Paler than the Golden Wedding, nearly if not quite pure yellow in tone, and rather pure gold in depths. This flower appears similar in color tone to the M. B. Spalding.

M. B. Spalding. Pure yellow, but with little depth of tone. In daylight the flower could hardly be called pure yellow; there are too many broken tones visible then.

Mabel Ward. Pure yellow like the flower above, but golden in the depths, showing rich color in every interstice, round as a ball and perfectly soft in color effect.

Mrs. L. C. Madeira. Pure golden yellow, very deep in tone. The flower is also round and shows off its pronounced color very well at night.

Golden Queen of England. Its graceful reflex petals show a marvelously soft pale, pure yellow.

W. H. Lincoln. Golden yellow, paler than Golden Wedding and a little stronger than M. B. Spalding. It is not far from pure yellow at night.

A. H. Fewkes. Golden yellow, a monotone.

Fascination. A most delicate tone of palest possible yellow. It might be called palest lemon yellow white.

Mrs. Jerome Jones. Waxy white, not quite pure, and deep cream yellow in the depths. The flower is very large and not quite refined in color effect; in this respect it differs entirely with the older favorite, Mrs. Alpheus Hardy. The flower is sometimes flecked with little bits of crimson. The foliage is a magnificent bronze green.

Niveus. Pure white, large and refined in color effect. It merely suggests a cream tint in the depths. The handsome dark foliage greatly enhances the value of the white by contrast.

William Falconer. Like the Mrs. Alpheus Hardy in shape and character, less purely white, sometimes showing itself a pure pale yellow, but generally of a pale pinkish tinted white, undoubtedly



CHRYSANTHEMUM MUTUAL FRIEND.

taking that effect of color from the influence of the decided pink which flushes the tips of the central petals. The pink color is hardly pure even with the advantage of artificial light. The yellow boss shows plainly.

Mrs. Joseph H. White. Pure white, a perfect ball, and in the interstices scarcely suggesting cream.

Wanlass. Palest æsthetic magenta pink, very rich color in the depths.

Olga. Magenta pink; the backs of petals whitish, and a touch of strong magenta in the depths.

W. N. Rudd. Pale magenta, paler and purer than Olga. Extremely dainty in color.

Roslyn. Light magenta pink, deep magenta pink in the depths; the flower is large but very refined in color tone.

E. A. Wood. Solferino pink, deep in tone, uniform in color and æsthetic in character. The foliage is dull sage green in color, and is in fine contrast with the flowers.

Ada H. Leroy. Deep magenta, in depths decidedly dark. The outside surface of the incurved petals is very pale magenta. The flower has a conventional, but pretty hemispherical form.

Mermaid. Very pale and very pure magenta pink, near crimson pink. Crimson pink in the depths of the loosely hung, broad, incurved petals.

Maud Dean. This flower will answer to the same description as the Mermaid, but it is paler and purer in color tone.

Dorothy Toler. Creamy crimson pink petals, inexpressibly delicate at the tips; the depths of the incurved petals are deep dull pink. The flower is ball shaped, set and conventional in character, but none the less beautiful for its primness.

Viviand-Morel. This flower has a remarkable habit of not looking always like itself; that is, it does not conform to a certain color tone, but varies greatly in force of color, according to the plant one happens to see. I should call the last flowers I saw pale crimson pink, stained on the crown with rich crimson pink; but the flowers generally speaking are pure carmine pink, in various degrees of depth, always glowing and brilliant in artificial light. I remember some of the flowers I saw a year ago were almost if not exactly pure pink.

Eda Prass. Palest shrimp pink, perhaps not unlike a Malmaison rose pink, but inclined more toward the orange tone.

Harry Balsley. Palest pure pink, deep pink at the heart, and the surface of the outside petals pale creamy pink.

Duchess of Connaught. Very pale pure pink; the ball shaped flower shows some little play of dainty color when placed directly under the light.

Alice Comley. Bronzy red in color, with dull yellow tips to the petals, dark maroon in the depths. The water lily-like petals are pale maroon inside and yellow and red (smooched) outside.

Joey Hill. The color is like the Cullingfordii red, but with white-maroon outside the petals; it is not unlike the Alice Comley, but it lacks the redolent color the latter possesses. There is an undertone of yellow in the petals.

Mrs. G. W. Childs. Red of a terra cotta tone. The color is light but subdued.

Vesuvius. I hardly know how to name its color with accuracy. Perhaps it would be just to call it golden in tone, tempered with deep red until it resembles dull flame color. Its pinkish red and brilliant gold mixed together give the flower a bronzy orange appearance.

F. SCHUYLER MATHEWS.

Chrysanthemum Notes.

Now that the chrysanthemum season is closed the wise grower will carefully sum up results to ascertain if possible just how much of its old popularity the chrysanthemum retains and what the prospects are for it being a profitable crop next year. We were told early in the season that fashion had discarded the chrysanthemum. We were told that there was no good reason for its popularity; that it was coarse and lacked fragrance; we were reminded of its resemblance to cold slaw, in fact the condemnation was worked through the daily press with such persistency that suspicion was naturally aroused as to the motive behind it all.

While it is doubtless true that the ultra fashionables in the great cities have abated their chrysanthemum craze and the chappy changed his mind as to the propriety of wearing an enormous bloom as an important part of his street costume, yet we submit that there is another and greater tribunal whose decree is of infinitely more moment to the florist trade than are the whims of fashionable society. We refer to the common people, the great American public, and no more convenient test of their temper can be obtained than through the medium of the public exhibitions.

Now that the exhibitions are over, what is the verdict? From all over the country comes the same testimony—crowded halls and greater interest than ever before. New varieties have been hailed with enthusiasm and the daily papers have found it wise to devote whole columns to descriptions of them. The public have been quick to appreciate and ready to applaud every advance made by our growers.

Prices have come down it is true. The days of six and nine dollars per dozen blossoms at wholesale have surely gone never to return. But that this means abandonment of the chrysanthemum by our leading growers we are slow to believe. A better understanding of the requirements of the plant and the application of economical and improved methods of cultivation will make it possible to produce the chrysanthemum, as has been the case with the rose, at popular yet profitable prices. This being the case, and the public being with us, there seems to be no good reason why the Queen of Autumn should not hold her sway for many a year to come.

Chrysanthemum Golden Wedding.

Noticing strictures on Golden Wedding chrysanthemum in recent issue of FLORIST, allow me to say a word in its favor. We had it 7 inches in diameter without disbudding. It was a beautiful rich golden color, double to the center. Foliage good and healthy, no insects infesting it. We considered it about the grandest variety we had out of over a hundred kinds, embracing many of the latest novelties. W. H. CASSELL.

Canton, Miss.

Chrysanthemum Mutual Friend.

The illustration is from a photograph of this new variety which received the first prize as best white and a certificate of merit at Boston. The flower is very large and full with broad and long drooping florets, making a deep reflexed flower of the purest white; a fine stem and excellent keeping qualities. It was exhibited by Mann Bros., Randolph, Mass.

DO YOU WANT an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our trade directory and reference book.

Palm Notes.

Phœnix Roebeleni seems to occupy the same place among the other members of this useful genus that Cocos Weddeliana does among the cocos, being a decided dwarf in comparison with its fellows.

At present this phœnix is too rare to become available as a trade variety, but in the course of time it is quite possible that seeds will be as freely offered as are those of the commoner species, and if this does occur it seems probable that Phœnix Roebeleni may prove a useful species for decorative purposes. In habit this palm reminds one of a miniature Phœnix rupicola, but the leaflets are very narrow and the whole plant very light and graceful. The leaves are dark green and the plant soon begins to form a stem, some idea of the dwarf character of this plant being gained from the fact that a full grown specimen (that is, one capable of bearing fruit) is only about three or four feet high.

The plant in question is a warm house species and will most likely find congenial conditions under the same treatment as that given to Areca lutescens.

Phœnix rupicola is really the most beautiful of the stronger growing date palms, and I think will make a salable plant sooner than P. reclinata, though not quite so hardy as the last named for outdoor use in summer.

As a house plant P. rupicola is very effective and seems rather to enjoy the dry atmosphere that invariably prevails in dwellings, this dry air being possibly somewhat similar to that experienced by these plants through a considerable portion of the twenty-four hours in their natural habitat.

Some of the phœnix are also very satisfactory for vase plants or for planting in veranda boxes, P. canariensis, P. reclinata and P. dactylifera being among the best for this purpose, the last named being the slowest grower of the three.

The true latanias include some very handsome palms, though scarcely to be considered among those suitable for the ordinary florist from the fact that they are too slow in growth and require strong heat and a more than ordinary amount of attention to secure the best results. Of these, Latania Verschaffeltii (also known as L. aurea) is perhaps the handsomest, and is only a moderate grower, its root action being slow.

The latanias are fan leaved, the footstalks of L. Verschaffeltii being almost erect and of light orange color, while the leaves are dark green with bright yellow ribs, this giving a combination of color that is decidedly effective. Latania Commersonii makes a strong contrast with the preceding, the stems and ribs of this species being dark red and the leaves more spreading than those of the one just described, being also deeply cut into segments and the latter edged with some small spines.

These two species are the most effective in the genus, in which at present there is only one other species, and all require the same attention in regard to light open soil, good drainage and brisk heat in order to keep them in condition.

Livistona chinensis aurea is rather an oddity among the palms, and though not very new, is comparatively rare, its chief claim to distinction being found in its color.

The foliage of this variety is of the same form as the type, but both leaves and stems have a pale golden color that gives a pleasing contrast with dark leaved species, though at times reminding one of a plant of the ordinary type that is badly in need of repotting.

This is probably an accidental form of variegation that may occur at any time among a lot of seedlings, and the uncertainty of its production naturally gives it some value among palm specialists and private growers, just in the same way that a nicely variegated specimen of Areca lutescens or Kentia Belmoreana would doubtless command a good figure.

Licuala grandis is not likely to become a trade palm, being probably too tender to be a useful decorative species, but it may be worth noting that the first shipment of seeds of this handsome palm that were received in this country within two years past turned out quite satisfactorily, germinating rapidly and resulting in fully 75 per cent of the number sown being potted off in a few months from the time of sowing. W. H. TAPLIN.

New York.

The past week stands out as one of the dullest of this very dull season and is by far the quietest ever experienced at this time of the year. Everything is in oversupply and the bulk of the stock received has been disposed of for much less money than previously. Even American Beauties have been sufficient to fill all demands and prices have not advanced. The highest figure obtained is 50 cents, but the majority of them are sold for much less. Testout seems to sell a little better than formerly. Bridesmaid has almost entirely superseded Mermet in this market. The latter is no longer salable at any price.

Carnations are in very heavy supply and are to be found in quantity in nearly every dealer's box. Wilders are the worst kind of a drug. The finer varieties, such as Daybreak, Buttercup, etc., when grown right sell well at good prices, but the commoner varieties bring only 35 to to 75 cents per 100, and that with difficulty. Harrisii lilies sell fairly well at 12 to 15 per 100. Violets have had a very black eye this week. There were two or three days when no one would look at them and the price has fallen to $1.25 to $1.75 per 100 for the best, so that those who have been foolish enough to make contracts at high figures are losers. There are too many Roman hyacinths; the best quality can be bought at 15 per 1000.

The earlier part of the week was particularly severe on the wholesale men, as it was so very cold that it was impossible for the Greeks to go out on the streets, and stock piled up mountains high in the refrigerators. When the Greeks cannot sell flowers they are content to give their whole attention to dice throwing, and they have no interest whatever in the prices at which flowers are sold. This is the time when Johnnie Weir is in his glory and smiles inwardly, but never outwardly, over the fact that he has the entire field to himself. Of course at such times he never wants anything—they have to force it upon him—and he winds up by going home with a bigger load than usual.

Indications for Christmas are not very promising. No one seems inclined to name positive figures on holiday stock, but it seems to be the general impression that prices will not reach within 25% of last year's figures on small roses. It does not look from present appearances as though there would be a very large supply of roses, but appearances are often very deceptive at holiday time. There has really been but little or no inquiry yet from important points for holiday stock. Some buyers indeed who have placed regular orders for certain kinds of stock are cutting down their orders even now. Asparagus plumosus will be plentiful at 50 cents a string and smilax will have no show with it. There will be plenty of Cypripedium insigne at $12.50 per 100 and a fair supply of cattleyas at $40 per 100.

Adolphe Le Moult, the florist at 170 Bowery, is financially embarrassed. He confessed judgments on December 14 for two notes of $1314 and $911, both for borrowed money. His property is heavily mortgaged. This failure is the chief topic of conversation and quite a number in the trade are involved for amounts more or less heavy. Dan Farson remarked at the club meeting last Monday evening that "New York will be a right smart town after a while." Probably it will.

The Flatbush Bowling Club will hold a prize bowling contest at Bantel's alleys, Flatbush, on December 28. A good time is expected.

Visitors in town this week: W. J. Palmer, Jr., of Buffalo and N. J. Herrick of Springfield, Mass.

Boston.

The cut flower market is in a most unsatisfactory state. There is a widespread fear among the retailers and growers alike that Christmas trade will be light, and buying in advance is avoided if possible by the retailers, while the growers are unusually solicitous to take orders for holiday delivery. The week just passed has been cold and stormy, so that the street fakirs who form such a large outlet for much of the commoner grades of stock are unable to work, hence stock is accumulating in the hands of the growers in spite of themselves, and prices show no indication that Christmas is near at hand. Much complaining is heard regarding the low figures and the growers of holiday stock sigh as they think of the good days of big prices in the past.

Few are confident enough to talk old fashioned Christmas prices on anything, an order at moderate figures being considered preferable to a chance on high prices, and the only varieties that show any backbone are violets and such other popular stock as Daybreak carnations. On the latter some growers quote as high as six dollars per hundred.

The roses now in market average rather poor in quality and short in quantity. There is really little doubt that every first-class rose sent in at Christmas will find a ready sale. Carnations are plenty and good. Indications are that there will be a big reserve stock thrown on to the market for Christmas. Dealers in greens report sales as satisfactory, with holly going exceptionally brisk; quality good.

Lawrence Cotter has been awarded two prizes by the Garden committee of the Massachusetts Horticultural Society, one for the best house of chrysanthemums grown on benches, and the other for the best house of lilies grown for commercial purposes.

Mr. Edwin Lonsdale, president of the Philadelphia Florists' Club, has consented to read a paper before the Gardeners' and Florists' Club of Boston in January.

The sympathy of the trade is extended to Mr. W. J. Hargraves on the death of his wife, who has been ill for some months. Mr. Hargraves was formerly



A CORNER AT THE CHRYSANTHEMUM SHOW GIVEN BY J. C. RENNISON, SIOUX CITY, IOWA.

in charge of the Bowditch estate and is now foreman of one of the departments at Forest Hill Cemetery.

The preliminary schedule of prizes offered by the Massachusetts Horticultural Society for the year 1894 is just received. The amount appropriated for plant and flower premiums is $4,500.

Philadelphia.

The Christmas holidays are upon us, and the prospects are that there will be plenty of stock of all kinds to supply the demand. Storekeepers are hopeful of a good business, but say there are very few orders as yet. What are roses going to be for Christmas is the question of the hour. No definite prices have been fixed at this date, although many whispered consultations have taken place between the growers as they happen to meet in the stores; some have been heard to say something about $15 for the large teas, but it seems to us $12 will be nearer the mark, while the smaller stock may bring $8. Carnations are very plentiful now, and if the plants are hanging as full of flowers as they are said to be one need not worry about getting a supply sufficient for all demands at about 50% above present prices.

Some of the stock coming in the past week presented that briny appearance so common at this season; one grower accounted for it by the fact that he always smoked his houses the week before Christmas, so that they should not smell of tobacco at that time; some said it was the weather, and others spoke of sulphur, etc. A peep into the ice boxes and cellars of the growers at this time would prove a very interesting sight.

Prices are much the same as last week, with the exception of Beauties, which are up to $35 for the best; prices of the larger teas range from $5 to $8, while the smaller roses can be bought as low as $2 for fair Perles, while for the best stock $4 is asked. There is quite a number of Kaiserin about, the best of which are very fine; there seem also to be a good many seconds. This rose bruises very easily, and in this respect is not as good a shipper as some others. Carnations are very plentiful, much more so we believe than last season. The varieties that show up best at present are McGowan, Buttercup, Lamborn, Ophelia, Sweetbrier, Thos. Cartledge, Edna Craig, H. Keller, Portia, Freeman, Wilder and Daybreak. This last variety is often left on too long, and thereby loses that beautiful shade of pink that makes it so desirable; it should be picked at least three times a week.

Roman hyacinths and narcissus are very hard to sell; $3 a hundred is highest for Romans and $4 is outside price for narcissus. Valley is cheaper this year than ever, $4 has been high, while plenty has been sold at $3. For smilax no offer is refused, $12 to $15 is the asking price. Freesia has made its appearance, Atkinson & Son, of Edgewater Park, being first this season as they were last. Dannenhower, of the Darby Road district, brought in a very fine lot of chrysanthemums the past week, they were first-class flowers, mostly Mrs. Simpson, they were bought and "salted" for Christmas.

The streets have put on the regulation holiday appearance, many stores being decorated quite elaborately; one done by Graham is very attractive, having among other things a chime of bells swinging as if ringing. The street corners and sidewalks are lined with holly wreaths and branches, lycopodium and laurel wreathing and Christmas trees. Christmas time is a harvest for the colored folks who live in the Jersey woods, for a month or more before, they make wreaths and wreathing and about the 20th come to town to dispose of them; they prefer to sell at retail and seldom bother the stores to buy. The wholesale price of laurel wreathing is $3 to $4 per hundred yards. Holly wreaths $10 to $12 per hundred, lycopodium wreathing $6 to $8; holly $3 to $4 per case of 16 cubic feet. Some parties visited the Delaware district last season buying up holly, they provided the cases, 16 cubic feet, and offered the natives the large sum of 10 cents to cut and fill them up.

Longinette's team was defeated by only 9 pins in the 10-pin match Thursday night last; a little more enthusiasm would have done the business, as over 80 pins were gained in the last game, but the lead was too great. Charlie says the next match will be his sure. K.

Buffalo.

Last Tuesday evening saw a better meeting of the Florist Club than for many months just past. The resolutions introduced a month or two ago condemning the undue advertising of our business at funerals was taken from the table and after nearly every member had given vent to his views on the same was passed unanimously and ordered spread on the records of the club. Some of the charges were too shameful for us to believe that they ever (or "hardly ever") were practiced, such as printing one's business card on the back of a private card left to be attached to a funeral design. If such despicable acts have been perpetrated a mere vote of condemnation is altogether too mild for such miserable creatures. They are truly enemies to the business. The special feature of this alleged advertising, which the large majority wishes to see abolished, is the practice of attaching to the design your business card, on which is written the address of the people receiving the flowers. This unsightly business tag if not taken off at the door by the messenger who delivers the piece is too often left on. What a sight to see the remains of a dear departed one doing service as an advertising medium for half a dozen enterprising(?) florists. This same tag likewise does its advertising services at the cemeteries. Several of the older heads declared they never allowed a piece to go out of their establishment with a tag attached, but gave the messenger the address on a card which he could keep in his pocket, and their statement was not doubted. This is as it should be. It was deemed wise to keep this discussion out of the local press, but no objection to give it to trade papers was manifest. The secretary was instructed to send to the secretary of the Undertakers' Association a copy of the resolutions with a request "that if by *accident* a business card should be found attached to funeral flowers we would consider it a favor if they would remove it." Your correspondent believes that the passage of the resolutions and the discussion it provoked will bear good fruit, and for its agitation and earnest support we have to thank our venerable old war horse J. W. Constantine.

The high price of flowers at the holidays was the next subject. The majority thought it was an injury to the business, many people going without the luxury of flowers who would buy if their means allowed them. It was agreed that the law of supply and demand ruled the prices and if there was not flowers enough to go round on certain occasions the highest bidder would get them and "what are you going to do about."

Some of the younger members of the club thought our meetings too dry and monotonous and proposed that one month from date we have a "smoker." Thanks to New York for introducing the fumigating process. The idea was hailed with delight by the old heads as well as young, so a smoker we shall have. Mr. Bunyard, of Short Hills, was present and

told us how to conduct one, so it's bound to be a success.

Business grows better and there is at last some good sized weddings, dances, etc. in sight. There are enough flowers at present. Roses are getting fine in quality; violets are in good demand and very scarce. Store windows are looking gay with Deutche Perle azaleas, poinsettias and cyclamen. We expect the usual good demand for greens, holly, etc. All hands are busy making up.

A call at a Cold Springs establishment one evening this week gave the writer an insight to the science of wreathing; seven men and boys tying and two chopping and preparing the greens. I was told the quickest worker (a lad) could make 10 yards of good wreathing in 11 minutes; that was record time, but his average for 10 hours was 40 yards an hour. W. S.

Chicago.

At the last meeting of the Florist Club there was quite a discussion on the use of foliage in floral arrangements and the necessity for a greater variety of foliage. It was shown that the growers for this market had rather neglected this demand, supplying but little outside of smilax and Adiantums cuneatum and gracillimum. A few send in some Asparagus plumosus, but the bulk of that used is shipped in from a distance. Though Adiantum Farleyense is considerably used and is largely called for, it must be imported from the east. The great value of croton leaves in giving an effective touch to arrangements was mentioned. Those used at the last exhibition came from Philadelphia. President Hauswirth spoke at length on the necessity for a wider range in material of this sort, and finally in response to a request he agreed to read a paper on the subject at the first meeting in January,

The committee appointed at last meeting to prepare resolutions expressing the sorrow of the club at the death of George Edward Thorpe reported and the resolutions presented were adopted by a unanimous vote.

The Florists' Exchange Pleasure Club, composed of a number of those who do business at the Cut Flower Exchange, has issued invitations to a reception and ball, to be held at Brand's Hall, Wednesday evening, Jan. 10.

Stollery Bros. at Argyle Park are growing some fine McGowan carnations. It certainly is a grand variety as seen here. The flowers are enormous, borne on strong stems, and lots of them too. But all the other stock here is looking fine also. Their violets are extra good.

Mr. O. P. Bassett of Hinsdale left last Monday for California, where he will probably remain for the rest of the winter.

Mr. Henry Holzapfel has gone to Washington with the World's Fair Bureau of Awards. He has charge of the horticultural division of the bureau.

This week began with a somewhat quiet market, though prospects are considered good for its close. Shipping orders have been placed for the holidays in a somewhat conservative manner, buyers evidently waiting until they could see the drift of the market. It is said that out of town retailers do not report so many advance orders as usual at this season. On Tuesday prices remained much the same as last week, Christmas prices not going into effect until Thursday. Beauties show an advance, they being extremely scarce, particularly in first grade, which ranges from $3 to $4 a dozen. Meteor brings $8, and is in high favor; $12 to $15 is the advance Christmas price for this rose, which seems to keep the highest in its class.

Carnations are not plentiful, colored ones being particularly scarce. Chrysanthemums are not out of the running even yet; common are quoted at $2 to $4, while fancies for Christmas are offered at $8 to $12; they are mostly white or pink, with but few yellows. Some very nice mignonette is coming in and sells out clean at $4. Violets continue scarce; Romans and paper white are very plentiful, and there is an ample supply of valley.

Christmas greens naturally hold a good share of attention and the fakirs are busy with them at the street stands. The holly is extremely good and well berried. Mistletoe is not noted in any quantity. The imported mistletoe doesn't seem to make any figure in the Chicago market, almost all of the stock being the American plant.

Lancaster, Pa.

Lancaster is an interesting town, a town with a history, famous for its quaint old houses and historical landmarks, among which is the mansion of the late President James Buchanan, famous also for its hospitality, and last, but not least, famous as the home of the AMERICAN FLORIST'S versatile carnation correspondent, Albert M. Herr.

The hospitality of the town, floriculturally, is vested in the person of Mr. H. A. Schroyer. Mr. Schroyer told the Philadelphia florists once at a club dinner that Lancaster was a famous place for good eating and he has been endeavoring ever since, with most wonderful success, to prove the truth of his assertion.

A trip among the greenhouses discloses the fact that there is a very large acreage of glass in Lancaster County, all the various branches of the industry being well represented. A. M. Herr's establishment is devoted almost exclusively to carnations, as would naturally be expected from such a carnation enthusiast. Here one may feast the eye on 8,000 Daybreaks all in fine condition and blooming heavily. Besides Daybreak all the popular pink varieties, such as Grace Darling, Aurora and Edna Craig are grown. A new candidate for favor in this line is Annie Pixley, a seedling raised by Mr. Frank Kohr of Lancaster. In color it is almost identical with the beautiful Grace Battles, is perfectly healthy apparently and is remarkable for the length of stems, which run from 18 to 24 inches.

Frank Kohr, the raiser of Annie Pixley, is also largely in carnations and they are in promising condition. Geo. W. Schroyer, father, and H. A. Schroyer, son, have a fine range of glass which they manage together, roses and carnations being staple crops. Mr. Schroyer is particularly proud of his Chinese primroses, which are a specialty with him.

The Bitner estate has been divided, a portion of the houses being run by J. W. Bitner & Co., and the rest being leased to Mr. B. F. Barr, a young man who is making good success as a beginner and whose roses and carnations look most creditable.

The immense establishment of A. D. Rohrer & Bro. has been further enlarged by the addition of a range of modern houses, in which violets, carnations, roses, lettuce and tomatoes are the main crop. The cultivation of tomatoes and lettuce seems to be an almost universal practice with the Lancaster florists.

The establishment formerly conducted by Willis Rohrer is now run by Lemon Landis. Here the roses, carnations and violets look well also and are thickly interspersed with the inevitable lettuce.

When one gets to the old Buchanan mansion he finds in the grand beauty of the landscape, in the associations connected with the place and in the genial company of Mr. Geo. B. Willson, the florist who now owns the estate, attractions enough to make him forget the passage of time and almost envy Mr. Willson his happy lot. Mr. Willson is an ardent old line democrat and can show many interesting relics of the former owner of the place, which have to him a double interest, but he finds time to look after a good sized range of glass where healthy carnations predominate, and which of course he proposes to add to in the near future.

St. Louis.

The Michel Plant and Bulb Co. will hold an auction sale of flowering and foliage plants on the 18th inst.

Trade for the past week has been slow, the weather being quite warm and stock plentiful. Should a severe cold snap appear during the week preceding Christmas it would have the effect of shortening stock considerably, as several shippers report the warm weather at present is about cleaning the crop off that was expected to last until the holidays.

As far as present appearances go the holiday trade will be way below that of ordinary years. As yet very few inquiries are being made regarding stock, and the orders that are being talked about are at one-half the usual price, say Mermets and Brides from 12 to 15, Kaiserin and Testouts 15 to 20, Perles, Woottons, etc. 8 to 10. It is hoped, however, in all quarters, that it may show unexpected strength as the time approaches.

On Thursday, the 14th, the regular monthly meeting of the Florists' Club was held. This is the first meeting since the flower show and a final report was made in regard to its affairs. The report showed that the deficit amounted to just $198.08, which will be paid by the Florists' Club. Routine business was transacted and an informal discussion held in regard to the expense connected with the rental of the hall, the general idea being that too much has been paid for this item, we having paid during the present season a rental of close to $800. No other hall could be suggested, however, which would answer the purpose, so the outlook for a change for the better is slim. We were pleased to have with us during the meeting Mr. M. A. Hunt, who was in the city for a short visit, and were edified by his remarks upon the unexceptional success of flower shows during the past season and also upon the great advantages derived from a well conducted show, both individually and generally, as well as the better knowledge and understanding it gives us of our fellow workers.

The second series of games has been commenced by the three teams composing the bowling club. Team No. 1 having defeated team No. 2 at the last meeting. As much interest is manifested as ever and the struggle for leadership will be close. The two medals authorized by the club have been procured and presented to their present wearers. There is to be offered in addition a medal by the manager of the alleys for the man having the highest score in the series, to become personal property after having been won three times in succession. R. F. T.

Washington.

Trade is picking up quite a little; since Congress convened society people are beginning to entertain, and at the majority of the luncheons and dinners more or less floral decorations are used. The fashion of renting palms, rubbers, pandanus and aspidistras by the month for decoration of private houses is growing. The plants are replaced with fresh ones about every six weeks by the florist having the contract. Some of our florists do quite a good business in this line, and they say it pays in more ways than one, for they always get the order for the floral decorations for entertainments given by the parties thus furnished with plants.

Flowers are improving in quality and quantity and are bringing fairly good prices as follows: La France, Perle, 6; Bride, Mermet, 8; Beauty, 40; Wootton, 10; carnations (very fine) 1.50; violets (poor and scarce) 1.25; Romans, 2.50; valley, 4; paper white narcissus, 2.25; smilax, 25; asparagus, 50. Some fine Kaiserins are bringing as high as $5 a dozen. Trade is quite up to last year and prices about as good.

C. LESLIE REYNOLDS.

Worcester, Mass.

Trade, like the ragman, has been picking up a little, and although the sales are far behind those of last year we are all thankful for what we do get. We had a very good Thanksgiving trade considering the hard times, and the prospects point to a lively business during the holidays.

Prices are fair and stuff good and plentiful. Lange brought in the first single and double Von Sions December 8, and Roman hyacinths and paper white narcissus are plentiful and of first quality. Plenty of good Mermets, Brides, Perles and Gontiers are coming in and are bringing from two to three dollars a dozen. Carnations are fine and lots of them. Daybreak is very popular and is truly a fine thing. Carnations are selling for fifty cents a dozen. Violets are coming better and in larger quantities, of good size and color. We are getting $1.50 a hundred. Home grown Harrisii have made their appearance and received a warm welcome, as those shipped here showed the marks of too much forcing, being very thin and having no keeping qualities.

SEEDLING.

Germantown, Pa.

The annual meeting of the Germantown Horticultural Society was held in Association Hall on December 13, and the following officers were elected for the ensuing year; President, B. H. Shoemaker; vice-presidents, Jonathan Jones, Chas. J. Wistar, Albert Woltemate; secretary, Geo. Reddles; Treasurer, Walter Cliffe.

A resolution was adopted limiting the number of exhibitions next year to two. The secretary reported that the chrysanthemum show in November last was the best ever given by the society, but the attendance was disappointing.

MIDDLETOWN, N. Y.—A stranger calling himself G. B. Richter, a German, recently leased a florist store in Middletown, avowing his intention to carry on a florist business. He was plausible and smooth and succeeded in inducing several business men to cash his check for amounts from $20 and upward and then disappeared. The checks were on the National Bank of Paterson and proved worthless.

SPRINGFIELD, MO.—W. A. Chalfant added a new house 50x18½, Hitchings iron frame construction, last September. He held a chrysanthemum show November 7 to 10 that was attended by over 2,000 visitors. He displayed about 150 varieties including The Queen, Niveus, Golden Wedding and others. He has a golden yellow sport from Jos. H. White that is identical with that variety except in color.

GRAND RAPIDS, MICH.—The Central Floral Co. is a new firm, composed of C. F. Bennett and J. A. Creelman, that started into business here last summer. They have 8,000 feet of glass, heated by steam, and with all modern improvements. Mr. Creelman was formerly with the Grand Rapids Floral Co.

KANSAS CITY, MO.—The Humfeld Floral Co. has added four new houses the past season. All are heated by hot water. They have also opened a store at 1010 Main street.

MANSFIELD, O.—Ed. Berno, manager of Berno's Greenhouses, will erect two new houses 16x40 the coming spring.

GREENWOOD, IND.—Bertrand L. Smith has moved his plant from Whiteland to this place with increased glass.

WHITEHALL, ILL.—Jas. Brown, Jr., has sold his business to P. W. von Bockelmann who will continue it.

150,000 PEARL TUBEROSES

Orders booked now for selected bulbs (4 to 6 inches in circumference) of above at $8.00 per 1000; $7.50 per 1000 in 5,000 lots.

SPIRÆA JAPONICA, - $3.75 per 100
GARDINER'S XX BERLIN LILY OF THE VALLEY PIPS, $20 per case of 2,500

English Mushroom Spawn.

Our fourth importation this season of above just received in splendid condition, $7.00 per 100 lbs.

JOHN GARDINER & CO.,
21 North 13th Street,
PHILADELPHIA, PA.
Mention American Florist.

CYCLAMEN GIGANTEUM from best seed, strong plants, showing bloom, in 4 and 5-inch pots, $8, $10, $20, $30 and $50 per 100. Dozen at same rates. Assorted colors.

PRIMULA CHINENSIS, in variety of foliage and color, 4-inch pots, $8, $10 and $12 per 100. Dozen at same rates.

Promptly shipped at "FLORISTS" Express rates.
A. S. MacBEAN, Lakewood, N. J.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By a single man, commercial or private place; 11 years' experience; age 26. Good references. Address Box 636, Batavia, Ill.

SITUATION WANTED—As foreman; practical grower of roses and cut flowers, plants, etc.; a life experience; single. Good references. Address FLORIST, 128 La Salle St., Room 8, Chicago.

SITUATION WANTED—By single man, as foreman in commercial or private place. Specialist in the growing of roses, chrysanthemums and violets; 20 years' experience. Best of references. Address D, care American Florist, Chicago.

SITUATION WANTED—In general propagation and growing of all requisites pertaining to first-class plantsman, in commercial place, including propagation, and care of nurseries, ornamentals, roses, evergreens, shrubs, herbaceous plants, etc. Executive ability, experience, sober and industrious habits. Best recommendations. PRACTICAL, care Am. Florist.

WANTED—An experienced packer in the wholesale plant department of a good sized place. Must come well recommended as to ability and good character. State wages wanted. Address X A R, care American Florist, Chicago.

FOR SALE.

Three greenhouses 18x80 ft. each, 5000 ft. of glass, on large lot 90x250 ft. on main street in town of 6000 inhabitants, 1 hour's ride from Phila., in a live town, connections with Penn., B. & O. and P. & R. railroads. Everything new, heated by steam. Must sell on account of sickness. A No. 1 trade. Possession at once. Will sell right. Address FLORIST, care Am. Florist.

Forcing Roses.

A stock of the best varieties always on hand.

M. A. HUNT, Terre Haute, Ind.

ROSES.

SOUVENIR DE LA MALMAISON

Own root plants, out door grown, $15 per 100.

ULRICH BRUNNER, own root plants, out door grown, $15 per 100. Budded on Manetti stock, $15 per 100.

EDWIN LONSDALE, Chestnut Hill, Phila.

Hybrid Perpetual Roses,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

ROSES.

		Per 100	Per 1000
1560	Perle, 3-inch	$ 5.00	$40.00
1000	" 2½-inch	3.00	25.00
600	Bride, 2½-inch	3.00	25.00
1200	Mermet, 2-2½-inch	3.00	25.00
200	Hoste, 2½-inch	3.00	

BROWN & CANFIELD, Springfield, Ill.

For Mildew on Roses

and CARNATION RUST,

USE FOSTITE.

Book on Fostite sent free.

Address C. H. JOOSTEN,
3 Coenties Slip, NEW YORK.

Please mention the AMERICAN FLORIST every time you write to an advertiser.

Rooted Cuttings. CARNATIONS. Rooted Cuttings.

ALL THE BEST VARIETIES IN CULTIVATION.

FINE STOCKS OF DAYBREAK, EDNA CRAIG AND CARTLEDGE.

NO DISEASE! NO RUST!

Catalogues ready January 1st, '94. Correspondence solicited.

Address H. E. CHITTY, Paterson, N. J.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

WE HAVE RECEIVED from Mr. Harlan P. Kelsey, Linville, N. C., a box of galax leaves and Leucothoe sprays. The leaves were very handsome, some deep green and others rich bronze in color. Their usefulness is now pretty well recognized. The specimens sent us were certainly very fine. The Leucothoe sprays were very pretty wands of foliage 2½ feet long, the leaves a rich green.

Cut Smilax

Largest and most reliable stock in America.

Satisfactory prices on application.

THE NATIONAL PLANT CO.,
Dayton, Ohio.

W. ELLISON,
WHOLESALE
Cut Flowers AND Florists' Supplies
1402 PINE STREET,
St. Louis, Mo.

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
WHOLESALE
FLORIST,
1122 PINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

CUT FLOWERS
—OF—
CARNATIONS
Prices on application.
CHAS. T. STARR, Avondale, Chester Co., Pa.

1000 STRINGS GOOD SMILAX,
5 to 6 feet long, No. 1, 20 cents per string. Cash with order.
Evenden Bros.,
WILLIAMSPORT, PA.

FOR SALE.
1000 Strings of First-Class Smilax,
at $15.00 per 100 strings, at
BOLANZ BROS., FLORISTS, AKRON, O.

SPECIAL NOTICE.

If you are short of
Roses, Carnations, Romans, Valley, Orchids, Smilax, Asparagus,
or any flowers in the market, Telegraph or Telephone your orders to us, and have them properly filled with choice flowers, and properly packed and shipped on time.

NOT RESPONIBLE FOR PACKAGES AFTER DELIVERED TO EXPRESS CO.

CORBREY & McKELLAR,
Phone Main 4508. 45 Lake Street, CHICAGO.

VALLEY. Plenty of it.
ROMAN HYACINTHS always on hand.
LIL. HARRISII, finest in the market.
ROSES. Best to be had.
Book your Christmas orders with us now.

Galax Leaves. We are Western Agents for one of the largest dealers in North Carolina, and can have them in our store within 48 hours after they are picked. Write us for estimate on large lot.
—— Shipping orders promptly attended to. ——

J. B. DEAMUD & CO., 45 Lake St., CHICAGO.

The Holidays.
For Choice Decorations nothing can equal ASPARAGUS PLUMOSUS NANUS.
No advance in price. CUT STRINGS, 8 to 12 feet long, 50 cts.
Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.
W. H. ELLIOTT, Brighton, Mass.

CUT FLOWERS.
Novelties and New Introductions in
ROSES AND CHRYSANTHEMUMS.
Fine Exhibition Stock.
THOS. YOUNG, JR.,
WHOLESALE FLORIST,
20 WEST 24TH ST., NEW YORK.

DAN'L B. LONG,
COMMISSION • FLORIST,
495 Washington St., BUFFALO, N. Y.
FORCING BULBS, FLORISTS' SUPPLIES, LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application.

CUT FLOWERS.
Roses, Carnations AND Chrysanthemums.
Write for prices.
GEO. A. KUHL, Pekin, Ill.

Wholesale Florists
The LaRoche & Stahl Flower Co. Limited.
N. E. CORNER
13th & Chestnut Sts.
PHILADELPHIA.
Mention American Florist

SAMUEL S. PENNOCK,
Wholesale Florist
REAR OF 42 S. 16th STREET,
Philadelphia, Pa.

H. L. SUNDERBRUCH,
Wholesale Florist
4TH AND WALNUT STREETS,
Cincinnati, O.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO.

Christmas and New Year's Prices. Per 100

Perles, Niphetos, Gontier	$ 7.00@$10.00
Bride, Mermet, La France	10 00@ 15 00
Meteor	12.00@ 15.00
Carnations, long, white	2.00
" " colored	3.00
" fancy	4.00
" short	1.00
Violets	2.00
Callas, Harrisii	15.00
Romans, Paper White	3.00
Valley	5.00@ 6.00
Smilax	15.00
Adiantum	1.00
Ferns, common per 1000 $2.50.	.30
Chrysanthemums, common	2.00@ 4.00
Cycas leaves, preserved .75 cts. each	

Last call for BOUQUET GREEN, HOLLY, MISTLETOE, WREATHING, GREEN WREATHS, HOLLY WREATHS, IMMORTELLES, CAPE FLOWERS, and all other HOLIDAY STOCK, at market rates. Don't hesitate to order if there is time to get it to you. Your orders will find us awake.

Western Agent for the GREAT ANTIPEST.

FLINT KENNICOTT, President. FRED. W. H SUNDMACHER, Sec'y and Treas.

Kennicott Bros. Co.
34 & 36 RANDOLPH STREET,
CHICAGO.
WHOLESALE CUT FLOWERS,
and FLORISTS' SUPPLIES.

WIRE WORK A SPECIALTY.

General Agents for Chicago and the Northwest of Kelsey's Beautiful New Southern Galax Leaves, $2.00 per 1000; 25 cents per 100.

A. L. RANDALL,
Wholesale Florist,
126 Dearborn St., CHICAGO.

Agent for finest grades Waxed and Tissue Papers.

REINBERG BROS.
WHOLESALE GROWERS OF
CUT FLOWERS
Roses, Carnations and Violets Specialties.
51 WABASH AVENUE,
Telephone 4937. CHICAGO.

WHOLESALE
FLORISTS,
JOBBERS IN . . .
. . FLORISTS' SUPPLIES,
METS, FLORISTS'
BRIDES, VASES.
GONTIERS,
CARNATIONS,
ALWAYS ON HAND.
1 Music Hall Place,
BOSTON, MASS.
HORTICULTURAL AUCTIONEERS. . .

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St., BOSTON, MASS.

CUT SMILAX,
15 cts. per string till November 1st. Quality first-class. Special attention to orders by wire.
E. BONSALL & SON, 308 Garfield Ave., Salem, O.

Wholesale Market.

Cut Flowers.

NEW YORK, Dec. 18.

Roses, Gontier, Niphetos	2.00
" Perle, Hoste	2.00@ 3.00
" Mermet, Bride	2.00@ 4.00
" Cusin, Watteville	2.00@ 4.00
" Meteor, Augusta Victoria	4.00@ 8.00
" Testout	4.00@12.00
" Beauty	5.00@40.00
Valley	4.00@ 5.00
Hyacinths, narcissus	2.00
Violets	1.00@ 1.75
Carnations	.75@ 2.00
Harrisii	12.00@15 00
Smilax	10.00@12.00
Adiantum	1.00
Asparagus	50.00

BOSTON, Dec. 18.

Roses, Gontier, Niphetos	2.00@ 3.00
" Perle, Sunset	4.00@ 5.00
" Bride, Mermet	3.00@ 6.00
" Meteor, Testout	4.00@ 8.00
" American Beauty	16.00@35.00
Carnations	.75@ 1.50
Chrysanthemums	6.00@ 8.00
Violets	1.00@ 2.00
Lily of the valley	4 00
Romans, narcissus	3.00@ 4.00
Harrisii, callas	12.50
Smilax	12.50
Adiantum	1.00@ 1.50
Asparagus plumosus	50.00@75 00
Stevia, houvardia	1.00

PHILADELPHIA, Dec. 18.

Roses, Perle, Gontier, Niphetos	2.00@ 4.00
" Cusin, Watteville, Hoste	3.00
" Bride, Mermet, Bridesmaid	5.00@ 8.00
" Meteors, Kaiserin, La France	6.00@10.00
" Belle, Beauty	20.00@35.00
Carnations, long	1.00@ 1.50
" short	1.00
" E. Craig, Sweetbrier, H. Keller	2.50@ 4.00
Violets, single, per 100 bunches	$5
" double	1.00@ 1.50
Valley	4.00
Romans, Narcissus	2.00@ 4.00
Longiflorums, callas	8.00@16.00
Bouvardia	1.00
Smilax	12.00@15.00
Asparagus, per bunch and string...50c to 75c	
Adiantum	1.00@ 1.50

CHICAGO, Dec. 21.
CHRISTMAS PRICES.

Roses, Meteors	12.00@15.00
" Bride, Mermet, La France	10.00@15.00
" Perle, Niphetos, Gontier	7.00@10.00
Carnations, long white	2.00
" " colored	3.00
" " fancy	4.00
" short	1.00
Violets	2.00
Harrisii, Callas	15.00
Romans, Narcissus	3.00
Valley	5.00@ 6.00
Chrysanthemums, common	2.00@ 4.00
" fancy	8.00@12.00
Marguerites	1.00
Smilax	15.00
Adiantum	1.00
Common ferns $2.50 per M	.25
Galax leaves $2 per M	.25
Asparagus	75.00

ST. LOUIS, Dec. 18.
CHRISTMAS PRICES.

Roses, Niphetos, Wootton	7.00@10.00
" Bride, Mermet, La France	12.00@15.00
" Meteor	12.00@15.00
" Beauty	50 00@100.00
Carnations, long	3.00@ 4.00
" short	1.00
Harrisii, Callas	15.00
Romans	3.00
Narcissus	4.00
Valley	5.00@ 6.00
Smilax	15.00@18.00
Adiantum	1.00
Ferns, fancy	.20

BUFFALO, Dec. 18.
CHRISTMAS PRICES.

Roses, Beauties	25.00@50.00
" Mermet, Bride, Bridesmaid	6.00@ 8.00
" Testout, La France	8.00@12.00
" Meteor	8.00@15.00
" Gontier, Perle, Cusia	4.00@ 6.00
" Niphetos, Hoste	4.00@ 5.00
Valley	5.00
Violets	1.50
Hyacinths, narcissus	2.00@ 4.00
Carnations, long	2.00
" Daybreak	3.00
" short	1.00
Smilax	20.00
Asparagus	50.00
Adiantum	1.50

GEORGE A. SUTHERLAND,
SUCCESSOR TO
PEGK & SUTHERLAND,
Successors to WM. J. STEWART.
CUT FLOWERS
and Florists' Supplies.
WHOLESALE.
67 Bromfield St., BOSTON, MASS.

BURNS & RAYNOR,
29 West 28th Street,
NEW YORK,
Wholesale Dealers in and Shippers of
Choice Flowers

OUR SPECIALTIES:
AMERICAN BEAUTIES,
METEORS.
BRIDESMAIDS.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST,
32 West 30th Street, NEW YORK.

Roses Shipped to all points. Price list on application.

VIOLETS.
The largest stock in the country, from the best growers. If you want first-class Violets for the Holidays, send to
JOHN YOUNG,
53 West 30th Street, NEW YORK.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS,
51 W. 30th St., NEW YORK.

JAMES HART,
WHOLESALE FLORIST,
117 W. 30TH ST., NEW YORK.

The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHRS,
WHOLESALE
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.
Established 1879.

MILLANG BROS.,
Wholesale Florists,
17 WEST 28TH STREET,
NEW YORK.
BRANCH: Cut Flower Exchange, 408 E. 34th Street.

MICHAEL A. HART,
Wholesale AND Commission Florist
113 WEST 30TH STREET,
. . . NEW YORK.
THE FINEST ROSES AND CARNATIONS.
Branch, at Cut Flower Exchange, 408 E. 34th St.

Edward C. Horan,
34 W. 29th Street, NEW YORK,
WHOLESALE FLORIST.
Careful Shipping to all parts of the country
Price list on application.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and treasurer, 116 Chambers street, New York. Next annual meeting second Tuesday in June, (will probably be held in Toronto.)

Yes, They are a Little Rattled.

Recent comparisons of estimates made by leading seedsmen on onion seed lists show a variation in prices on an order of less than 20 pounds to be over 100 per cent, one firm offering to fill for about $15, while another firm named a price of $30, and still another $20. The present accepted wholesale price on the same stock at this date is $23. A good healthy seed trust would come in handy for some of the boys just now.

DANIEL BATCHELOR of Utica, a member of the Niagara Falls Reservation Commission, and director of the United States Agricultural Experiment Station at Geneva, died suddenly in the New York Central depot in Utica. He had just returned from a trip to New York. He was born in England in 1818, and came to America in 1839. He conducted a seed store in Utica for thirty years, retiring a short time ago. He was widely acquainted among the farmers of the state.

FIFTY THOUSAND

PEARL TUBEROSES

F. O. B. NEW YORK.

We offer selected bulbs of above, from four to six inches in circumference, for shipment early in December, at $9.00 per 1000. Orders accepted subject to being unsold.

SWEET PEAS, California grown.

We are headquarters for California grown Sweet Peas, and parties desiring to contract for their requirements for season of 1894, will do well to write for prices.

SUNSET SEED & PLANT CO.

(SHERWOOD HALL NURSERY CO.)

427-9 Sansome St., *San Francisco, Cal.*

Hulsebosch Brothers,

OVERVEEN, HAARLEM, HOLLAND.

	Per 100	Per 1000
LIL. HARRISII, 7—9	$3.00	$25.00
" CANDIDUM	2.00	15.00
WHITE ROMAN HYAC., 11—15	1.75	15.00
ITALIAN, blush white Hyac., 12—17	1.75	15.00
NARCISSUS CAMPERNELLE	.60	4.50
SINGLE BEGONIAS, fine bulbs, new crop, finest strain, in 4 separate colors	4.50	35.00
CONVALLARIA MAJALIS, German pips	1.00	8.00
TUBEROSES, Pearl and Tall, A1	.90	7.50

Low budded Roses, hardy Azaleas, Rhododendrons, Clematis, etc., etc., can be ordered at any time for March, '94 delivery.

HULSEBOSCH BROS.,

58 West Street, NEW YORK CITY.

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to

Seed Bags and Catalogue Envelopes.

NEW HAVEN, CONN.



WHY do so many Canna growers say they have a yellow Canna "As good as Florence Vaughan?"

Robert Craig, Chairman of Committee of Awards in Floriculture at World's Fair, says, Dec. 6, 1893: "Florence Vaughan has proved to be all that was claimed for it; it is still far superior to any Yellow Canna in commerce."

VAUGHAN'S SEED STORE,

New York. CHICAGO.

The TRADE PRICE LIST of

C. PLATZ & SON, SEED GROWERS, ERFURT, GERMANY,

can be had on application, from their Agent

C. RAOUX, P. O. Box 2938, **New York.**

ELECTROTYPES of VEGETABLES, FLOWERS, ETC.

VILMORIN, ANDRIEUX & CO., Seed Growers, Paris.

Apply for Catalogues. NOVELTY SHEET NOW READY.

Complete Stock in New York

— WITH —

THEO. PABST & CO., 26 Barclay Street.

Tuberose Bulbs.

Dwarf Pearl and Tall Double.

Extra select, sound stock, $1 25 per 100; $9.00 per 1000.

W. W. BARNARD & CO.

6 & 8 N. Clark Street, CHICAGO.

SEND for Catalogue of

JAPAN BULBS, SEEDS and SHRUBS, ARAUCARIAS, TREE FERNS, AUSTRALIAN PALM SEEDS, CALIFORIA BULBS and SEEDS to

H. H. BERGER & CO.,

Established 1878. SAN FRANCISCO, CAL.

Z. De Forest Ely & Co.

WHOLESALE SEEDSMEN,

Growers AND Importers of Bulbs.

JOBBERS IN

FLORISTS' SUPPLIES.

1024 Market Street, PHILADELPHIA, PA.

Price lists to dealers on application.

PANSY SEED.

For eleven years the growing of FINE PANSY SEED has been my specialty.

YOU WILL WANT SOME.

I will be pleased to tell you about it and quote you prices. DAVID B. WOODBURY, Paris, Maine.



Write for Wholesale List.

MICHEL PLANT AND BULB CO.,

ST. LOUIS, MO.

WE SELL MUSHROOM SPAWN,

LILIUM HARRISII AND DUTCH BULBS.

Special Low Prices to Florists & Dealers.

WEEBER & DON,

Seed Merchants and Growers,

114 Chambers Street, NEW YORK.

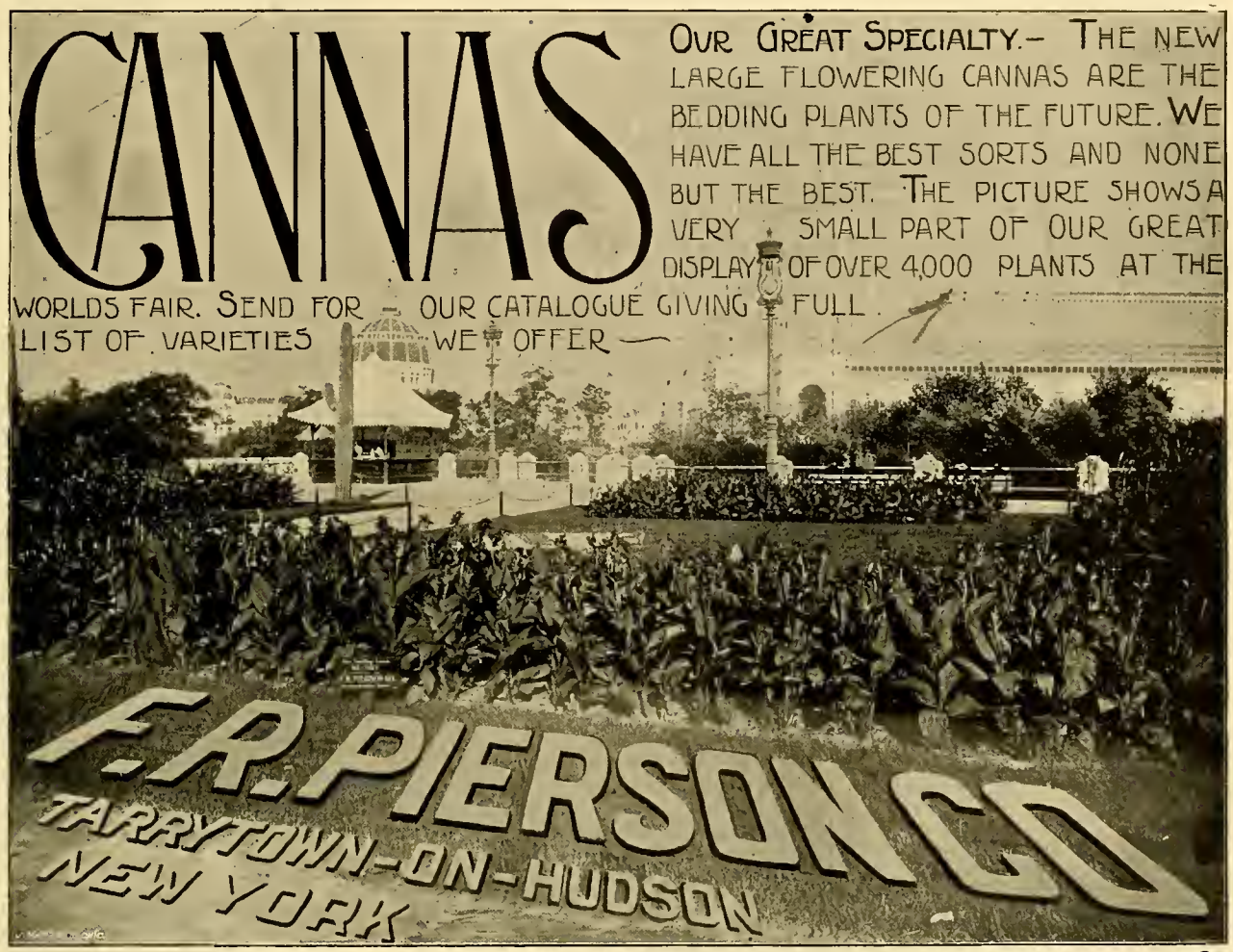
CINERARIAS.

Strong healthy plants, 2½-inch..... $2.50 per 100
3-inch..... 4.00 per 100

FUCHSIAS, Rooted Cuttings..... 1.00 per 100

Will exchange for Hydrangeas and Genistas.

S. WHITTON, 11 Roberts St., Utica, N. Y.



ROOTED CUTTINGS. Per 100

Alternantheras, Versicolor, Rosea nana, Aurea nana, Tricolor and P. Major	$.50
Achyranthus of sorts	1.00
Coleus of sorts	.50
" best new and old	1.00
Parrots Feather, Fuchsias	1.00
Mexican Primroses, 3 kinds	1.00
Heliotrope	1.00
Fittonia, red veined, $2.00; silver veined	1.50

PLANTS.

Alternantheras, full of cuttings	3.00
Begonias, assorted; Lantanas, assorted	4.00
Fuchsias, ass't; Heliotrope, ass't $3.00 and	4.00
Abutilons, assorted	4.00
Echeveria glauca $2.00 and	3.00
" Extensa globosa, 6 to 12 in. across 25 & 50c. ea.	
Achyranthus, assorted	3.00
Coleus, assorted $2.00 and	3.00
Hibiscus, assorted	4.00
" Schizopetalus	6.00
Anthericum picturatum per dozen, 75c.	

ROBT. S. BROWN & SONS,
Box 99. KANSAS CITY, MO.

HEADQUARTERS for WATER LILIES

SEED, TUBERS AND PLANTS.

Embracing all the newest and choicest in cultivation. Awarded SIX MEDALS at World's Fair—the highest number of awards for aquatics.

Illustrated descriptive Catalogue free on application.

Wm. TRICKER, DONGAN HILLS, New York.

Asparagus plumosus nanus.

$15.00 per 100.

Strong plants from 4-inch pots. Cash with order.

ALEX. SCOTT,
Balto. Co., Lauraville, Md.

EXTRA CHOICE FLOWER SEEDS.

List free on application.

FRED. ROEMER, SEED GROWER,
QUEDLINBURG, GERMANY.

HOW TO GROW CUT FLOWERS.

A PRACTICAL TREATISE ON

THE CULTIVATION OF THE ROSE,

And Other Flowering Plants for **Cut Flowers,** sent to any address upon receipt of **$2.00.**

M. A. HUNT, Terre Haute, Ind.

100,000 VERBENAS.

THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.

NO RUST OR MILDEW.

Packed light, and satisfaction guaranteed. Send for circular. . . .

We are the largest growers of Verbenas in the country. Our sales reaching last year 215,500. Our plants this year fully equal, if not surpass, any we have ever grown.

J. L. DILLON, Bloomsburg, Pa.



TRY DREER'S GARDEN SEEDS,

Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.

HENRY A. DREER,
Philadelphia, Pa.

E. G. HILL & CO.,

Wholesale Florists

RICHMOND, INDIANA.

200,000 Pansies.

The Jennings strain of large flowering and fancy pansies may still be had in any quantity wanted. Plants are field grown, and are fine and stocky. Pure White, Yellow mixed, by Express, $5.00 per 1000; 5000 $2.00; 10,000 $3.00. Small plants by mail, 60c. per 100. Seed of either of the above, $1.00 per trade pkt. of 2,500 seeds. The leading strain. The largest sales. Always satisfactory.

ADDRESS **E. B. JENNINGS,**
WHOLESALE PANSY GROWER,
Lock box 254. SOUTHPORT, CONN.

P. SEBIRE & SONS,

Nurserymen, USSY, Calvados, FRANCE.

A general assortment of Fruit Tree Stocks, such as Apple, Pear, Myrobolan Plum, Mahaleb and Mazzard Cherry, Angers Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, etc. The largest stock in the country. Prices very low. Packing secured. Catalogue free. Send for quotations before placing your order elsewhere. Agents for U. S. America and Canada.

C. C. ABEL & CO., P. O. Box 920, New York.

Rooting Cuttings of Conifers.

"The latter part of December and January is the very best time in the year in which to root conifers from cuttings," said Jackson Dawson."

"For what reason?" inquired the AMERICAN FLORIST.

"Well, you see we are apt to have warm weather at the time when many growers make their cuttings, that is in September and October, and many cuttings are lost. They have not time to callous. With steady cold temperature they seem to get just in good condition to make a nice callous and then as soon as you put them in growing beat they start off at once. I root Abies concolor, Picea pungens and other difficult species in that way with a very small percentage of loss."

THE AMERICAN FLORIST and *Gardening* together to one address for $1.75. Send orders to the American Florist Co.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

New Yellow Coleus.

The Golden Crown is a perfect beauty,
On the lawn will do its duty;
Its color, style, and growth are fine,
'Twill make the landscape fairly shine.
Fine stock now ready, $3.00 per dozen; (Golden Bedder we don't want you).

The Verbena of yore was a modest wee styme,
Scarcely as large as a silver dime.
Until Henderson, the great floral arter,
Produced them as large as a silver quarter.
Still we're progressing, florists may laugh,
Gibson shows them as large as a silver half.

P. S.—We have a fair stock of the progressive seed and will gladly supply it to all who may need. 500 seeds 50 cts.; ⅛ oz. $1.00. 500 seeds 35 cts.; ¼ oz. 60 cts. Post free.

Gibson's Pansies need no praisers,
They're such beautiful, scented blazers,
500 seeds 50 cts.; ⅛ oz. $1.00; nice stocky plants 50 cts. per 100; $4.00 per 1000.

Dreer is the Petunia king,
His elegant strains are just the thing.

Double hand hybridized, per 500 seeds 75 cts.; 1000 seeds $1.25. Plants and rooted cuttings, flats.
Field-grown gold and silver variegated Vincas $5.00 per 100. Snow Crest Daisies, nice young plants, flats, $5.00 per 100. Cash with order please.

Address *J. C. GIBSON, Woodbury, N. J.*

BARGAINS,

In these plants, to move quickly. I need the room.

		Per 100
Geraniums, best bedders, strong, 2-inch		$ 2.00
"	Bronze, strong, 2-inch	3.00
"	Mme Salleroi, strong, 2-inch	1.50
Coleus, from 2-inch pots, fine.	$12.50 per 1000.	1.50
Petunia, double, best sorts, strong, 2-inch		2.50
Primroses, single, best strain, strong, 3-inch		5.00
Heliotropes, strong, 2-inch		2.00
1500 Carnations, Portia, extra nice field grown		5.00
1000 "	Fred Dorner, extra nice field grown	5.00
200 "	Garfield, medium size, but good	5.00
200 "	Tidal Wave, " "	4.00

Farleyense Ferns, vigorous plants, 3-inch, 25c. each.
Chrysanthemums, stock plants, best sorts, 10 for $1.00
Rooted Cuttings Coleus, splendid asst., 50c. per 100.
" " Geranium Mme. Salleroi, $1.00 per 100.
" " Verbenas, fine kinds, labeled, 75c. "

N. S. GRIFFITH, Independence, Mo.

Independence is well located for shipping, being 8 miles East of Kansas City, Mo.

CYCLAMEN persicum giganteum 5-inch pots $10 00 per 100
GENISTAS, 2½-inch pots, strong plants, $6.00 per 100.
CARNATIONS, Dorner's Seedlings, $15 per 100 McGowan, Puritan, Wilder, and others, $8.00 per 100. Second size $6.00 per 100
Correspondence solicited.

Address **J. G. Burrow,**
FISHKILL, N. Y.

CARNATIONS.

All the new and leading varieties. Send for prices on what you want.

GEO. HANCOCK, Grand Haven, Mich.

CARNATIONS.

Fourteen houses planted to carnations, all of which are under my own special care and supervision, so that I can guarantee all the cuttings sent out as first-class.

The varieties I grow are Daybreak, Lizzie McGowan, Silver Spray, Grace Darling, Aurora, Portia, Edna Craig, Fred. Dorner, J. R. Freeman, Golden Triumph, Annie Pixley.

Not a big list but a mighty good list. Come and see them grow, or write to me for prices, stating how many you will want of each variety and when they are to be delivered. I think we can make a deal that will be satisfactory to us both.

L. B. 496. **ALBERT M. HERR, LANCASTER, PA.**

ANNIE PIXLEY.

From a commercial point of view right now at Christmas I can say for this carnation that it is the finest I ever grew. With only ordinary culture I can cut stems twenty inches long, the flowers are large, the calyx has never burst, the plants are more than ordinarily strong and healthy and the color is just right, one of those pleasing shades of light pink that people can't help but buy.

Awful strong claims to make but if you will try it you will have to acknowledge they are none too strong.

Orders will be filled in rotation beginning now, at **$12 00 per 100; $100.00 per 1000.** 25 at 100 rates; 250 at 1000 rates. As next year is another year, I do not intend to ruin my stock by over propagation to fill orders. Be wise.

Terms cash before shipping, or C. O. D.

COME AND SEE THE NEW AND BEAUTIFUL FANCY CARNATION "HELEN KELLER"

GROWING AND BLOOMING.

It is Healthy and Productive. In form, size, and elegance nothing in sight can approach it. It is the greatest novelty among Carnations up to date.

Listen to what Mr. Robert Craig says about it:

"I am charmed with Helen Keller Carnation; it is very distinct and fascinating—will undoubtedly be very popular."

Two houses filled with this sterling new variety are worth going many miles to see: One at Summit, N. J.; the other at Wyndmoor near Chestnut Hill, Phila., where inspection is invited.

Flowers only for sale at present, $1.00 per dozen; $6.00 per 100.

EDWIN LONSDALE, CHESTNUT HILL, PHILA.
JOHN N. MAY, SUMMIT, N. J.

Siebrecht & Wadley,

ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.

Palms,
ORCHIDS,
Roses,
and New Plants.

FRESH DRACAENA CANES NOW READY.

Mention American Florist.

ORCHIDS.

The Finest Stock in the World.

SANDER'S,
ST. ALBANS,
ENGLAND.

Thirty minutes from London.

Our Mr. A Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

FRESH IMPORTED ORCHIDS.

Cattleya Gaskelliana,

5—7 Bulbs, $.75 each.
7—12 Bulbs, 1.25 each.
Larger plants, $2.00 to $5.00 each.

I. FORSTERMAN,
Newtown, N. Y.

VERBENAS, stock plants		$2.50 per 100
HYDRANGEAS, Easter forcing stock.		
	4½-inch pots	10.00 per 100
"	strong	25 to 35 cts.
CYCLAMENS		6 to 10 cts.
REX BEGONIAS, 3-inch		6 cts.
SWORD FERNS, 3-inch		8 cts.
GREVILLEA ROBUSTA, fine plants,		15 cts.

McCREA & COLE, BATTLE CREEK, MICH.

SWEETBRIER

Received 1st Premium for "best seedling of any color" at Phila., Nov. 7, '93. Color between Daybreak and Wilder.

"I like its color better than Daybreak."
EDWIN LONSDALE.
"Sweetbrier is all that can be desired."
W. A. MANDA.

Rooted cuttings, $10 00 per 100; $80.00 per 1000. Delivery to begin February 1, '94.

OPHELIA

Was winner of Craig Cup for best seedling at Phila., Spring of '93. Color darker than Wilder.

"That beats Edna Craig." BENJ. DURFEE.
"It is the best flower in your houses." ROBT. CRAIG.

Price and delivery same as above. Flowers of both the above brought $5.00 per 100 wholesale at J. R. Freeman's, Washington, last winter. Send for price list of other varieties.

EDWD. SWAYNE, Kennett Square, Pa.

Carnations.

Field plants all sold.

Orders solicited for early delivery of **ROOTED CUTTINGS** in varieties suitable for summer blooming.

C. J. PENNOCK,
The Pines. KENNETT SQUARE, Chester Co., PA.

50,000 ROOTED CUTTINGS OF THE

Daybreak Carnation

will be ready for delivery by January 10th. Orders booked now. **Satisfaction guaranteed.**

Price, $2.00 per 100; $15.00 per 1000.

Terms strictly cash. Address

FRED SCHNEIDER, Wholesale Florist,
ATTICA, Wyoming Co., N. Y.

FOR SALE.

ALTERNANTHERAS, four best kinds, from 2½-inch pots, good strong plants, ready for propagating. Write for price.

MRS. A. LAMBERT,
555 E. Fair Street, ATLANTA, GA.

INCREASE YOUR INCOME

without any expense or loss of time by taking subscriptions to GARDENING from your customers when they call. For special terms to florists address

THE GARDENING CO., Monon Building, Chicago.

CHRYSANTHEMUMS.

S. PICKELMANN,
352 William Street, BUFFALO, N. Y.

Vivland-Morel,	Mrs. W. S. Kimball,
Mrs. J. G. Whilldin,	Louis Boehmer,
W. H Lincoln,	Mrs. Humphrey,
Mrs. I. Forsterman,	Minnie Wanamaker,
Eda Prass,	V. H. Hallock,
Goguac,	W. W. Coles,
A. J. Drexel,	Frank Thompson,
Mrs. J. D. Eisele,	Potter Palmer,
W. F. Dreer,	Roslyn,
J. N. Gerard,	E. G. Hill,
Violet Rose,	W. A. Manda.
J. S. Mathew,	Mrs. C. D. Avery,
J. F. Taylor,	L. C. Madeira,
O. P. Bassett.	Edward Hatch,
Ivory,	King's Daughter,
Ada Spaulding,	Annie Manda,
William Falconer,	Spartel,
G. W. Childs.	Ernst Asmus,
Mrs. Gov. Fifer.	E. D. Adams,
Col. H. M. Botes.	Mont Blanc,
Joseph H. White.	J. C. Vaughan.

The above are 20 cts. each.

Miss Helyett,	Pres. W. R. Smith,
Niveus,	Mrs. Robt. Craig,
Tuxedo,	Marguerite Jeffords,
Princess of Chrysanthemums,	Mrs. Minnie Colgate,
Dr. H. D. Hull,	Temptation,
Ermentilda,	Judge Holtt,
J. W. Morrissey,	Anna Woods,
Miles A. Wheeler,	Truth,
Golden Wedding,	Maud Dean,
Parthenia, Gloriosum,	Imperial Castle

The above are 35 cts. each.

Chrysanthemums.

STOCK PLANTS.

15 Cents Each.

Bride of Roses	L. Canning	Mr. H. Cannell
Bohemia	Lord Eversley	Pres. Hyde
E. G. Hill	Louis Boehmer	Potter Palmer
Emily Dorner	Molly Bawn	Violet Rose
Fred. Dorner	Mrs. A. Hardy	Wahan
Geo. Savage	Mrs. G. W. Bullock	Yosemite
H. E. Widener	Mabel Douglas	John Lane

Mrs. I. W. Forsterman.

20 Cents Each.

Cullingfordil	Harry May	Mrs. K. Brown
Eda Prass	Ivory	Pat. Barry
Ernst Asmus	L. B. Bird	Roslyn
E Ladenburg	Mrs. Whilldin	Sunflower
Geo. Daniels	Mrs. I. Clark	T. C. Price
Grandiflora	M. Wanamaker	Vivland-Morel
Gertie	Mermaid	J. C. Vaughan

Temple of Solomon.

35 Cents Each.

Golden Wedding	Dr. Mandeville	Mrs. H. Graves
Sun God	Mrs. W. Cutting	Mrs. A. Mantee
Good Gracious	Imperial Favorite	E. Hitzeroth
E. W. Hatch	Mrs. Bayard Cutting.	

Cash to accompany all orders.

A. H. SEAVER,
49th Street and 1st Avenue,
SOUTH BROOKLYN, N. Y.

Chrysanthemums.

STRONG STOCK PLANTS.

Mrs. Jerome Jones.....50 cts.
Mrs. L. C. Madeira.....35 cts.

And at 20 cts., or $2.00 a dozen:

Ivory,	Cullingfordii,
L. Canning,	Firenzi,
Bolero,	Gloriosum,

W. W. Coles.

ALL THE NEW ONES WHEN READY.

SEND US THE LIST which you made up at the shows and we will fill it all and save you money.

J. C. VAUGHAN,

NEW YORK.	CHICAGO.
26 Barclay St.	146 & 148 W. Washington St.

CHOICE SEEDS.

PETUNIA FIM. FL. PL.

The largest and finest strain of double fringed and mottled Petunias to be had. All who see these Petunias say they are the finest they ever saw. Selected specially for florists. Extra.

VERBENA GRAND.

This fine strain of Mammoth Verbenas gives perfect satisfaction to my many customers and is justly claimed to be the finest in cultivation. Florets an inch in diameter, in immense umbels, of the finest colors. Florists, be sure to sow of it.

CYCLAMEN GIANT.

A magnificent collection of the finest Giant Flowering varieties; largest flowers and best colors.

Per liberal Trade Packet of each of the above, 25 cts 3 pkts. 60 cts.; 6 pkts. $1.00.

JOHN F. RUPP, Shiremanstown, Pa.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

Panic Prices.

CHRYSANTHEMUMS.

Avoid the rush by ordering at once for January and February delivery. Orders entered and filled in strict rotation. Prices quoted are per 100. Not less than 10 plants of one variety at these figures. Quotations on lots of 5 or less, and if desired booked for later delivery.

VARIETIES AT $5.00 PER 100. Armida, American Flag, Amber Queen, Antocrat, Alba Venus, Mrs. F. L. Ames, Mrs. Anthony, Wm. Bolla, Miss Baldwin, Black Beauty, Cardinal, Comrades, Mrs. J. W. Crouch, Mrs. B. Cutting, Mrs. W. Cutting, Mrs. J. T. Closson, Joseph Clark, Calendula, I. H. Cliffe, Mrs. C. Duhme, Martha, Duryea, Marion Drugee, Maud Dean, Florence Davis, A. T. Ewing, Esmeralda, Mrs. B. Findlay, Fascination, G. R. Gause Mrs. H. Graves, Gertie, Gloriana, Master of Garden, Joey Hill, Judge Holtt, Dr. H. D. Hull, Mrs. W. P. Henzsey, Sarah Hill, Illuminator, Irma, Emily Ladenburg, C. L. Mitchell, L. Menand, W. G. Newitt, Niveus, Parthenia, W. T. Palmer, H. Perkins, Miss Sue Price, Portia, W. N. Rudd, Mrs. M. W. Redfield, Redondo, E. Reiman, Mabel Simpkins, A. A. Sturges, Pres W. R. Smith, Summit, Mrs. W. Falconer, Temptation, Truth, Mr. J. C. Vaughan, Anna Woods, Jennie Williams, Mrs. L. Ward, Miles A. Wheeler, Whitestone.

VARIETIES AT $3.00 PER 100 Hicks Arnold, Mrs. E. D. Adams, L. B. Bird, L. Boehmer, Mme. Bergman, Miss Kate Brown, G. W. Childs, H. Cannell, Mrs. I. Clarke, Mrs. A. J. Drexel, Domination, Wm. Falconer, See'y Farson, Golden Gate, Golden Wedding, Mrs. J. N Gerard, E. Hitzeroth, Edward Hatch, Ivory, Mrs. J. Jones, Jessica, M. Jeffords, Kloto, W. H. Lincoln, Harry May, Vivland-Morel, A. H. Neve, Princess of Chrysanthemums, Col. W. B. Smith, Shenandoah, Ada Spaulding, Maria Simpson, H. E. Widener, and hundreds of others, all strong, healthy and **true to name.** If unfamiliar with colors and descriptions send for catalogue No. 10, containing full information. Orders cannot be filled of less value than $2.00. **Terms Cash to unknown correspondents.**

T. H. SPAULDING, Orange, N. J.

IN THE FRONT RANK!

NEW WHITE CHRYSANTHEMUM

"MUTUAL FRIEND"

It is sure to be a prize winner and a leading variety for '94.

FIRST PRIZE and CERTIFICATE of MERIT MASS. HORT. SOCIETY, '93.

Orders booked now for March delivery, 50c. each; $4.00 per dozen. At these prices all should try it. We know it will please. Send for descriptive circular.

MANN BROS., Randolph, Mass.

New Chrysanthemum, MRS. J. GEO. ILS,

A CALIFORNIA SEEDLING.

Flowers sent from San Francisco to the Chicago Show awarded a MEDAL.

A grand white, of remarkable substance, size and depth of flower. See Illustration in AMERICAN FLORIST of November 16th. The very vigorous habit, and our large stock of this novelty, enables us to assure the trade of good plants, and to guarantee safe arrival. To be sent out the 1st of March, 1894, at the following prices to the trade:

75 cents each; $7.50 per 12 plants; $14 per 25 plants; $25 per 50 plants; $40 per 100.

ORDERS BOOKED NOW BY

JOHN H. SIEVERS, 25 Post St., SAN FRANCISCO, CAL.

CHRYSANTHEMUMS.

STOCK PLANTS.

AT 50c. EACH—The Queen, Golden Wedding, Mrs. Jerome Jones, Niveus, Maud Dean, Joey Hill, Pres. Wm. R. Smith, A. T. Ewing, W. G. Newitt, W. N. Rudd, Jennie Williams, Geo. R. Gause.

AT 25c. EACH, (All good for cutting)—Amber Queen, Armada, Mrs. Harmon Payne, Mme. Edward Rey, Mlle Therese Rey (fine), Mme. Octave Mirabeau, Mme. Isaacs, Harry Balsley, Joseph H. White, Mrs. J. G. Whilldin, Marguerite Graham, Marguerite Jeffords, Miss Kate Brown, Golden Bale, Wahan, Mrs. E. W. Clarke, Miss Lyda Hopkins, Judge Holt, Mrs. Robt. Craig, F. Bergman, Good Gracious.

AT 12½c. EACH—Ivory, Vivland-Morel, Violet Rose, Jessica, Golden Gate, Sweet Lavender, Mlle. Ferber, L. Canning, Cullingfordii, Elise, Kioto.

CHICAGO FLORAL CO.,
38th St. & Grand Boulevard, CHICAGO, ILL.

PALMS.

150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

Address **GEORGE WITTBOLD,**
1708 N. Halsted St., CHICAGO.

GERANIUMS.

At least 40,000 in flats, at	$15.00 per 1000
At least 20,000 in 2½-inch pots . . .	20.00 per 1000
A few thousand Coleus in 2½-inch pots.	20.00 per 1000
A few thousand Double White Petunias, 2½-inch pots, at	2.50 per 100
Ageratum, blue and white . .	2.00 per 100

At these prices the selection of sorts to remain with us.

The above are in fine condition.
Cash with the order.

J. E. FELTHOUSEN,
370 Van Vranken Avenue, SCHENECTADY, N. Y.

HYDRANGEA,

THOMAS HOGG,

3 and 4-inch pots, $4.00 and $6.00 per 100.

BRAUER & RICHTER,
McCONNELSVILLE, OHIO.

YOU CAN

SAVE MONEY BY PURCHASING, AND GLASS BY USING

Hamilton's Patent Sash Lifter.

The best thing of the kind ever invented for greenhouse use. Send for description and price list.

BAY STATE HARDWARE CO.,
272 Freeport Street, BOSTON, MASS.

Phyllotænium Lindenii.

Replying to the question asked by P., Phyllotænium Lindenii is a stove aroid and enjoys liberal treatment in regard to heat and moisture. The soil best suited for this plant is composed of about equal proportions of rough fibrous loam and coarse peat, with the addition of some sand. Put plenty of drainage material in the bottom of the pot, and do not press the soil too firmly. Give a night temperature of 70°, and only a light shading during the winter, but in summer more shade and heat are admissible, and during the latter season well established plants will be benefitted by a watering with weak manure water at intervals of about ten days. W. H. TAPLIN.

Greenhouse Thermostat.

Will some reader of the FLORIST tell me where I can get a *reliable* greenhouse thermostat? The three that I now use have to be set by guess and are liable to get out of order. What I want is a thermostat that can be set accurately to a certain degree and that can be depended upon. DAVID CLIFFE.

Germantown, Pa.

Assessing Greenhouse Property.

ED. AM. FLORIST:—I would like to hear from florists in other cities as to methods of assessing greenhouse property for taxation—I mean to ascertain its taxable value. An exchange of experience in this matter might prove of considerable value to all. E. H.

Swainsona

GALEGIFOLIA ALBA.

The beautiful pea-like blossoms of this free blooming plant are produced in racemes three to five inches long.

IT IS ESPECIALLY VALUABLE TO THE FLORIST WHO GROWS AND RETAILS HIS OWN FLOWERS.

A few extra strong plants in bud and bloom, $4.00 per dozen.

Plants well established in thumb pots, $10 per 100.

EDWIN LONSDALE,

Money Order office, Station "H", Phila. | WYNDMOOR, nr. Chestnut Hill, PHILADELPHIA, PA.

COLEUS.

A large stock in 75 varieties, including the very newest kinds.

Rooted Cuttings in 30 to 40 varieties, at $6.50 per 1000 by express.
" " in 20 vars. at $1.00 per 100 by mail.
Golden Bedder (true), at $10.00 per 1000.
Verschaffeltii, Golden Verschaffeltii, Mrs. T. D. Haight, and other yellows, at $8.00 per 1000.
New Kinds including some of the most handsome ever offered for sale in 10 vars. at $2 per 100 by mail.
Stock Plants, ordinary kinds, at $3.00 per 100.
" " Verschaffeltii and yellows, at $4.00 per 100.
Cash with Order. Safe delivery guaranteed.

Also a large and fine stock of **CARNATIONS.**

— Send for circular. —

W. R. SHELMIRE, Avondale, Pa.

THE ASSOCIATION FLORA,

BOSKOOP, HOLLAND.

NOW ON HAND IN NEW YORK:

CLEMATIS in sorts, 3 years	per 100	$25.00
SPIRÆA JAPONICA	"	4.00
DIELYTRA SPECTABILIS	"	4.00

Lilium speciosum, Pæonias Rhododendrons, Azaleas H. P. Roses, in best varieties, per 100 $9.00: Abel Carriere, Alfred Colomb, Anna Alexieff, A. de Diesbach, B. Rothschild, Fisher Holmes, Gen. Jack, La France, Mme. G. Luizet, Mme. Plantier, Magna Charta, Paul Neyron, P. C. de Rohan, Perle des Blanches, Ulrich Brunner and others. Catalogue on application.

P. OUWERKERK,

206 Cambridge Ave., JERSEY CITY, N. J.

DOES IT PAY?

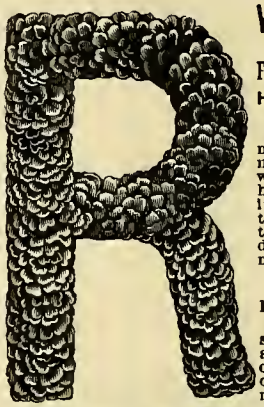
to wait till the last moment.

NO! Then order your

Bouquet Green, Cut Ferns, Sphagnum Moss, Xmas Trees, Holly, Festooning, and Xmas Green of all kinds. ▲ ▲ ▲ ▲

And do it early. Write for prices—low as the lowest. A 1 goods, and the only place in the WORLD where you can ALWAYS get them.

H. E. HARTFORD, 18 Chapman Place, BOSTON.



W. C. KRICK'S
PATENT
Florists' Letters, Etc.

Highest Award wherever exhibited.

These Letters are made of the best immortelles, wired on wood or metal frames having holes drilled in them to insert toothpicks, by which to fasten them in the design. All infringements prosecuted.

2-inch Letters, $3.00 per 100.
Postage, 15c. per 100.

Before purchasing send for free sample and Catalogue and compare with any other letter in the market.

W. C. KRICK, 1287 Broadway, BROOKLYN, N. Y.

Agents:—J. C. VAUGHAN, Chicago, Ill.; H. BAYERSDORFER & Co., Phila., Pa.; N. STEFFENS, N. Y.; AUG. ROLKER & SONS, N. Y.; ED. S. SCHMID, Washington, D. C.; JAMES VICK'S SONS, Rochester N. Y.; T. W. WOOD & SONS, Richmond, Va.; J. A. SIMMERS, Toronto, Ont.

BOSTON FLORIST LETTER CO.,

13 Green Street, BOSTON, MASS.
Address all correspondence to 1 Music Hall Place.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1½-inch and 2-inch, $2.00 per 100. Patent fastener with each letter.

With orders for 500 letters we give away a nicely stained and varnished box. See cut in next week's American Florist.

Our letter is handled by all the wholesalers in Boston. AGENTS: A. Rolker & Sons, New York; Marschuetz & Co., 25 N. 4th Street, Philadelphia, Pa.; F. E. McAllister, 22 Dey St., N. Y.; Ernst Kaufmann & Co., 113 N. 4th St., Philadelphia, Pa.; H. Bayersdorfer & Co., Philadelphia, Pa.; A. D. Perry & Co., 33 Warren St., Syracuse, N. Y.; A. C. Kendal, 115 Ontario St., Cleveland, O.; E. H. Hunt, 79 Lake St., Chicago; Wisconsin Flower Exchange, 131 Mason St., Milkwaukee, Wis.; H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.; T. W. Wood & Sons, 6th and Marshall Sts., Richmond, Va.; Jas. Vick's Sons, Rochester, N. Y.; Dan'l B. Long, Buffalo, N. Y.; C. A. Kuehn, St. Louis, Mo.; C. F. Huntington & Co., Indianapolis, Ind; Z. De Forest Ely & Co., 1024 Market St., Philadelphia, Pa.; Portland Seed Co., 171 2nd St., Portland, Oregon.

J. A. Simmers, Toronto, Ont., Agent for Canada.

Rooted Cuttings

COLEUS, 10 sorts, **60c. per 100**

BY MAIL.

SAMPLE DOZEN, without names, mailed for 10 cts.

S. O. STREBY,

Lock Box 77,

UPPER SANDUSKY, OHIO.

Verbenas

SPECIAL OFFER.

	Per 100	Per 1000
Unsurpassed Mammoths, 2¼-inch pots	$3.00	$25.00
" " rooted cuttings	1.25	10.00
Genera l collection, named, " "	1.00	8.00
" " " 2¼-inch pots	2.50	20.00
H. P. Roses, dormant, strong	6.00	75.00
Tea " " "	6.00	50.00
Forcing " 3-inch pots, "	6.00	50.00

WOOD BROTHERS,

Fishkill, N. Y.

Wild Smilax, Pines and Palmettos

FOR DECORATIONS

AT LOW FIGURES.

Low freight rates by steamer to New York, Boston, Philadelphia and Baltimore.

A. C. OELSCHIG,

SAVANNAH, GA.

CHRISTMAS DECORATIONS

Holly in Wreaths and Branches.

LAUREL & GREEN FESTOONING.

Mistletoe

Xmas Trees, Pop Corn, Etc.

QUEEN CITY SEED HOUSE,

North-East Corner 2d & Walnut St. Cincinnati, O.

Galax Leaves.

You cannot afford to be without them if you sell Cut Flowers and Decorate. Especially for Christmas. Big money in them. I sold 300,000 in 3 months last winter. **$2.00 per 1000 by express. Sample 100 sent by mail on receipt of 50c.**

LINCOLN I. NEFF, Florist,

4010 Butler St., PITTSBURG, PA.

AGENT FOR HARLAN P. KELSEY.

CUTS!

WOOD ENGRAVING,
PHOTO-ENGRAVING,
WAX ENGRAVING,
ZINC ETCHING,
HALF-TONE,
DESIGNING.

MANZ & CO.,

183 Monroe Street, CHICAGO. **ENGRAVERS.**

Stock Plants Cheap.

STRONG ROOTS OF

Jessica, Viviand-Morel, Geo. W. Childs, Mrs. L. C. Madeira, V. H. Hallock. Ivory, W. H. Lincoln, Wabau, J. C. Vaughan, Diana and other Mums, **at 10 cts. each, or $1.00 per dozen.**

Cash with order.

SOUTH SIDE FLORAL CO., Springfield, Ill.

CLEMATIS.

I have choice lot of nice, well rooted, one year plants, very suitable for potting now; these will make fine strong plants by sales time, grown in cold house and treated same as H. P. and other roses, in variety, Jackmanni, Duchess Edinburg, Henryii, C. Lovelace, Fairy Queen, Lady Neville, Gem, P. Alexandra and others, $1.50 per doz.; $12 per 100. Two year in var. $3 per doz.; $20 per 100.

F. A. BALLER, Bloomington, Ill.

READ THIS.

JUST RECEIVED, a large Importation of

Immortelles,

with information of a drop in prices on the other side.

Hence we offer Immortelles

NATURAL - - at $15 per case

ALL OTHER COLORS at $20 per case

We quote Cape Flowers, prime quality and weight, at

25c., 50c. and 75c. per pound.

Long stemmed Capes, $1 "

We are unpacking a new importation of

French Metal Wreaths and Designs.

They are very fine.

ON WHEAT SHEAVES

We can beat the world in quality and price.

ORDER NOW.

H. BAYERSDORFER & CO.,

56 N. 4th St.,

PHILADELPHIA, PA.

☞ WHOLESALE ONLY. . . .

MARSCHUETZ & CO.,

Florists' Supplies,

23 & 25 N. 4th St., PHILADELPHIA, PA.

Send for Catalogue.



Send orders for . . .

CLEAR CYPRESS

Greenhouse Material

from bottom of gutter up.

Correspondence solicited. Estimates cheerfully furnished.

LYMAN FELHEIM, ERIE, PA.

VERBENAS, MAMMOTH PLANTS in perfect health, $2.00 per 100. ROOTED CUTTINGS, $6.00 per 1000. Finer I never saw. Warranted; delivered free for December only.

W. B. WOODRUFF, Florist, Westfield, N. J.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Immortelles, natural yellow, at $2.00 the dozen bunches; white, scarlet, purple, blue, pink and other colors at $2.75.

Hartford Fern, paper pressed, in papers of one dozen fine fronds with foliage, at $3.00 the dozen papers.

Maidenhair Fern, paper pressed, at $3.50 the dozen papers.

Cycas Leaves, (Sago Palm), natural prepared, equal to fresh cut in appearance, according to size at 40c., 45c., 50c., 60c. & 75c. each.

Holiday Baskets, Plant stands, Pot-holders, Metal Fern dishes and Jardinieres bowls, in rich and tasteful assortment.

Supplies of all Kinds, such as: Cape Flowers, Milkweed balls, Funeral Sheaves, Metal Designs, Moss, Wire, Tinfoil, Christmas Greens, etc., etc.; all quoted in our beautifully and richly illustrated new Trade List, mailed free. Address

August Rolker & Sons,

136 & 138 W. 24th St., P. O. Station E. **New York.**



Florists' Pins

Glass Heads, in Black or White.

PRICES:

1, 1½, 2, 2½, 3, 3½, 4 inches,
50c, 75c, $1.00, $1.25, $1.50, $1.75, $2.00 per 1000

For Sale by

August Rolker & Sons, New York.
Wm. Elliott & Sons, New York.
H. Bayersdorfer & Co., Philadelphia.
N. F. McCarthy & Co., Boston.
E. H. Hunt, Chicago.
J. C. Vaughan, Chicago.
Huntington Seed Co., Indianapolis, Ind.
W. Ellison, St. Louis.
E. W. Crook, San Francisco.
S. Tidy & Son, Toronto, Ont.
Edw. Mullin, Kingston, Ont.

AUG. F. BRABANT, Manufacturer,
54 Warren Street, NEW YORK.

Medal Awarded

at World's Columbian Exposition to

ERNST KAUFMANN & CO.,

113 N. 4th St., Philadelphia, Pa.

FOR

METALLIC DESIGNS, WHEAT SHEAVES, CELLULOID BASKETS AND POT COVERS, and all Florists' Supplies.

Mention American Florist.

HUNTINGTON SEED CO.

Florists' : Supplies,

66 E. WASHINGTON ST.,
INDIANAPOLIS, IND.

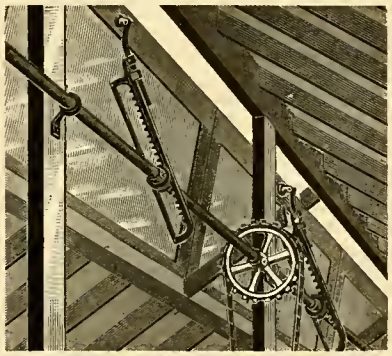
Standard Flower Pots, Dried Grasses, Fancy Baskets Metal Designs. Trade Catalogue mailed free.

SEE HERE

BROTHER

FLORIST!

Aren't you tired going through your houses two or three times a day year after year and lifting your ventilating sash one at a time and propping them up with sticks or pots, with a chance of having sash blown off and broken glass to pay for? If you are



We have got just the thing you need, the **NEWEST** and **BEST** thing out. "The New Departure" for about half the cost of the old style. Send for Descriptive Catalogue to

J. D. CARMODY, Evansville, Ind.

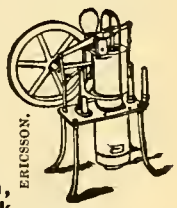
WATER

For Your GREEN HOUSE, ROSE HOUSE, NURSERY,

Conservatory, Lawn, House, Garden, Stock or any other purpose.

Send for Illustrated Catalogue OF THE

DE LAMATER-RIDER AND DE LAMATER-ERICSSON PUMPING ENGINE.



HOT-AIR PUMPING ENGINE.

Their operation is so simple and safe that a child can run them. They will pump water from shallow streams or any kind of well. They can be arranged for any kind of fuel.

Capacity 1,500 to 30,000 gallons of water a day, according to size.



The De Lamater Iron Works,
87 South Fifth Avenue,
NEW YORK, N. Y.

CANE STAKES

10 to 12 feet long,

at $4.00 per 1,000
3.50 by 5,000
3.00 by 10,000

A. C. OELSCHIG,

. . SAVANNAH, GA.

DON'T MISS IT.

YOUR CHANCE TO MAKE MONEY WITHOUT ANY SPECIAL EFFORT BY TAKING SUBSCRIPTIONS FROM YOUR CUSTOMERS FOR **GARDENING.**

THE GARDENING CO., Monon Building, CHICAGO.

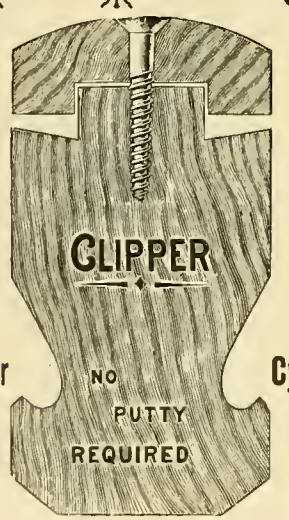
Toronto.

Business this week has been very much like the weather, very unsettled, sometimes below zero, at other times about the average for the time of year, but never above par. Times are bad and money is scarce, but florists' stores increase and multiply. Mr. J. H. Dunlop, wholesale grower, is the latest; he has opened a large store on Yonge street, and it is reported that he is about to open another on King street. There may be enough business to keep them all going until spring, but in the summer it is likely to be a case of "the survival of the fittest." I don't want to be pessimistic: I am sure I wish them all well, but there is a limit and in these hard times the limit won't expand much. It is bad taste to croak at Christmas time, I suppose, but I thought it better just to mention these things now in case three or four more stores should open before I wrote my next notes.

Chrysanthemums are now almost a thing of the past, and what there are left look, with few exceptions, very, very tired. I noticed a vase of good blooms of late sorts in Dunlop's window yesterday.

Carnations are plentiful and there is a good demand. Daybreak has the call and never gets left. E.

LOCKLAND LUMBER CO.



MATERIAL FOR GREENHOUSES.

Send for Circulars and Testimonials.

Address LOCKLAND, O.

Mention American Florist.

Standard Flower Pots.

$10,000 WORTH IN STOCK,

which we wish to dispose of within the next 60 days (Dec. 12, 1893), 25% off list below will be given for cash with order.

Price List.					
2 -inch,	Per 1000	$3.25	7-inch,	Per 100	$ 3.50
2½-inch,	"	3.50	8-inch,	"	5.00
2½-inch,	"	4.00	9-inch,	"	7.50
3 -inch,	"	5.00	10-inch,	"	10.00
3½-inch,	"	7.25	11-inch,	"	15.00
4 -inch,	"	9.00	12-inch,	"	20.00
5 -inch,	"	13.80	14-inch,	"	40.00
6 -inch,	"	22.00	16-inch,	"	75.00

HILFINGER BROS. POTTERY,
FORT EDWARD, N. Y.

August Rolker & Sons, 136 & 138 W. 24th St., New York City, Agents for New York and vicinity.

"Standard" Flower Pots.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Potterv Company,

BRANCH WAREHOUSES: 713, 715, 717 & 719 Wharton St., Philadelphia, Pa.
Randolph Ave. and Union St., Jersey City, N. J.
Jackson Ave. and Pearson St., Long Island City, L. I.

Mention American Florist.

STANDARD FLOWER POTS

Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.

A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.

We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

Send for price list and samples and we know you will give us an order.

SYRACUSE POTTERY CO. OFFICE: 403 North Salina Street, SYRACUSE, N. Y.

STANDARD FLOWER POTS.

OLD RELIABLE MAKE OF

ELVERSON, SHERWOOD & BARKER.

Write for Catalogue and Price List.

PITTSBURGH CLAY MFG. CO. New Brighton, Pa.

STANDARD FLOWER POTS

Our new **Pottery,** new **Machinery,** the very **best Clay** in the **Country,** and our new **Patent Kilns,** all combined, make the **best Standard Pot in the market.** Send for price list.

PARMENTER MF'G COMPANY,
GEORGE MESSINGER, Manager. East Brookfield, Mass.

D. H. ROBERTS,

159 and 161 S. Fifth Avenue, - NEW YORK,

NATURAL GAS MADE GLASS,

FOR ROSE HOUSES, CONSERVATORIES, ETC., ETC.



Pat. 1882, '85, '86, '88, '90, '91.

FOR WATER, AIR, STEAM, ACIDS, OILS, LIQUORS, GAS, SUCTION,

And for any and every purpose for which a hose can be applied.

Sizes, ⅛-inch to 42 inches diameter.

The making, vending or use of any Serviceable Armored Wire Bound Hose not of our manufacture is an infringement on one or more of our Patents. The rights secured to us render each individual dealer or user responsible for such unlawful use with all the consequences thereof. For prices and discounts address WATERBURY RUBBER CO., Sole Mf'rs and Owners of all the *Sphincter Grip Armored Hose Patents,* 49 Warren Street, New York.

J. C. VAUGHAN, Agent, CHICAGO.

BOXES. BOXES. BOXES.

Three-Piece Wood Mailing Box.

The neatest and strongest box on the market. Send 15 cts. in stamps for sample nest and price list. I also make Cut Flower and Express Boxes.

W. E. SMITH,

Successor to SMITH & SMITH,
Hardin County. KENTON, OHIO.

FLORAL DESIGNS

The Cut Flower Worker's Friend. Fine book of 160 pages. Send $3.50 for it, to

J. HORACE McFARLAND, Harrisburg, Pa.

FLORISTS' HOSE,

Made by E. W. Holt, member of the Society of American Florists.

Goodyear Rubber Store,

2 W. 14TH ST. NEW YORK.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

LITTLE'S ANTIPEST.

— A —

Valuable Discovery of the 19th Century.

SILVER MEDAL AWARDED

— BY THE —

CALIFORNIA STATE FAIR OF 1890.

This preparation is a sure destroyer of the **Scale, Wooly Aphis** and **Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure** and **Cheap.** No fruit grower or florist should be without it.

Send for Circulars and Price List.

R. W. CARMAN, General Agent,
291 AMITY STREET,
FLUSHING, Queens, Co., N. Y.

Increase Your Business

by fostering an interest in plants and flowers among the people in your vicinity. You can best do this by getting subscribers to

GARDENING . . .

which tells people how to get the most satisfaction out of their gardens, and stimulates them to enlarge and extend their gardening operations.

$1.00 A YEAR is the subscription price of this paper, which is issued twice a month, is handsomely and truthfully illustrated, is thoroughly practical, absolutely free from wind and gush and grinds no axes for anyone.

SPECIAL LOW RATE to florists who will act as agents. We want an agent in every city and town in America. Write for terms now to

THE GARDENING CO.
Monon Building, CHICAGO.

THE CHAMPION Automatic Ventilator.

The cheapest, easiest to operate, and by far the **best machine** in the market. Don't buy a Ventilator until you have seen my illustrated descriptive circular, which will be sent you free, giving prices, etc. Also **Champion Soil Pulverizer and Sifter.**

Address, **E. E. WOLF,**
Box 114. SPRINGFIELD, O.
Mention American Florist.

THE PERFECT DRAINAGE

BENCH TILE

For circulars, etc., address

W. P. Wight, Upland Green Houses,
Send your business card. MADISON, N. J.

CATALOGUE PRINTING. ELECTROTYPING.

Done with expert ability for Florists, Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.
. . . HARRISBURG, PA.

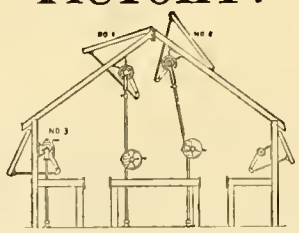
GLASS. ROCK BOTTOM PRICES Send for Estimate. Satisfaction Guaranteed.
REED GLASS CO.,
65 Warren St., and 46, 48 & 50 College Place,
New York City.

VICTORY! VICTORY! VICTORY!

The only Certificate of Merit awarded for ventilating apparatus at the St. Louis Convention was to the

POPULAR STANDARD VENTILATING MACHINE

The florist's friend in working and prices.



No repairs for 5 years. no chains to break as is the result with others.

Opens Sash uniform on 100 foot houses. A new device.

Send for Catalogue and Estimates.

E. HIPPARD, Youngstown, Ohio.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO.

NATURAL GAS MADE GLASS,

FOR GREENHOUSES.

Write for latest prices.

FRENCH GLASS

For CONSERVATORIES, ROSE HOUSES, Etc. Etc.

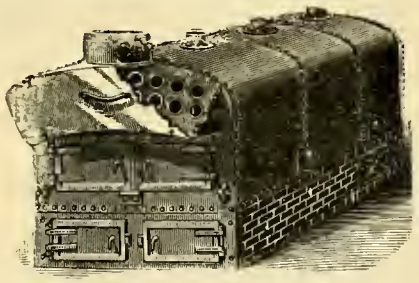
VANHORNE, GRIFFEN & CO.,

Importers of PLATE and WINDOW GLASS. Manufacturers of BENT GLASS and FRENCH MIRRORS.

131-133-135-137 FRANKLIN STREET, **NEW YORK.**

Note—Imported Glass is used in the best grade of Greenhouse building

KROESCHELL BROS.
IMPROVED
Greenhouse Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

Mention American Florist

EVANS' IMPROVED
CHALLENGE VENTILATING APPARATUS

Write for Illustrated Catalogue.
QUAKER CITY MACHINE WORKS, Richmond, Ind.



GREENHOUSE HEATING
AND VENTILATING.
Superior Hot Water Boilers.
JOHN A. SCOLLAY,
74 & 76 Myrtle Ave., Brooklyn, N.Y.
☞ Send for Catalogue.

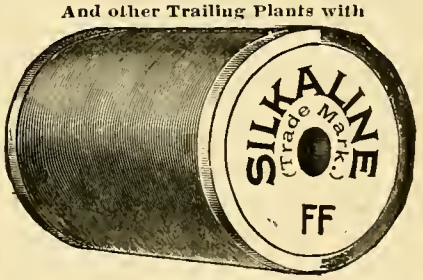
HAIL

LOCK THE DOOR BEFORE THE HORSE IS STOLEN.
DO IT NOW.

JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

STRING SMILAX

And other Trailing Plants with



JOHN C. MEYER & CO.,
13 Otis St, (off Summer), **BOSTON, MASS.**
For sale by all leading Florists' Supply Houses.

J. N. STRUCK & BRO.

Manufacturers of

• CYPRESS • Greenhouse Material,

LOUISVILLE, KY.

GURNEY Hot-Water Heaters FOR Greenhouses.

Send for a copy of our book "How best to heat our houses."
GURNEY HOT-WATER HEATER CO.
163 FRANKLIN ST., BOSTON.
Branch Office: 59 Wabash Avenue, Chicago, Illinois.
Selling Agencies: Johnson & Co., 71 John St., New York City. J. C. F. Trachsel, 246 Arch St., Philadelphia

Please mention the AMERICAN FLORIST every time you write to an advertiser.

Index to Advertisers.

Abel C C & Co.....465
Adv. Rates, etc.....462
Baller F A 468
Barnard W W & Co....464
Bayersdorfer H & Co..469
Bay State Hdw Co.....467
Berger H H & Co.....464
Bolanz Bros.....462
Bonsall Jos E & Son...463
Boston Letter Co 468
Brabant Aug F.....469
Brauer & Richter.... 467
Brown R S & Son 465
Brown & Canfield.. ...461
Burns & Raynor.....463
Burrow J G.....466
Carman R W.....471
Carmody J D..... 469
Chicago Floral Co.... 467
Chitty H E.....461
Corbrey & McKellar...462
Deamud J B & Co.....462
De Lamater Iron Wks.469
Dillon J L.....465
Dreer H A... 465
Elliott W H.....462
Ellison Wm.... 462
Ely Z De Forest & Co..464
Evenden Bros 462
Felheim Lyman.....469
Felthousen J E.....467
Forstermann L 466
Gardening Co The.469 471
Gardiner John & Co....461
Gibson J C.....466
Goodyear Rubber Sture 470
Griffith N S..... 466
Gurney Heater Co.....471
Hall Ass'n.....471
Hancock Geo 466
Hart James.....463
Hart Michael A.....463
Hart & Crouse.....472
Hartford H F.....468
Herr Albert M.....466
Hews A H & Co.....470
Hilfinger Bros.....470
Hill E G & Co.....465
Hippard E.....471
Hitchings & Co.....472
Hooker H M Co.....471
Horan Edw C.....463
Hulsebosch Bros.....464
Hunt E H..... 463
Hunt M A..... 461 465
Hunter Frank D.....463
Huntington Seed Co...469
Jennings E B.....465
Joosten C H.....461
Kaufmann Ernst & Co.469
Kennicott Bros Co.....463
Krick W C.....468
Kroeschell Bros 471
Kuehn C A.....462
Kuhl Geo A. 462
Lambert Mrs A 466
La Roche & Stahl.....462
Lockland Lumber Co..470
Long Dan'l B.....462
Lonsdale Edwin461 466 468
Lord & Burnham Co...472
McCarthy N F & Co....463
McCrea & Cole.....466
McFarland J H.....470
McFarland J H Co.....471
MacBean A S.....461
Mann Bros.....467
Manz J & Co.....468
Marschuetz & Co.....469
May John N.....465
Meyer John C & Co ...471
Michel Plant & Bulb Co 464
Millang Bros.....465
Moffatt G J.....464
Moninger Jno C 472
National Plant Co.....462
Neff L I.....468
Oelschig A C.....468 469
Ouwerkerk P.....468
Pabst Theo & Co.....464
Parmenter Mfg Co.....470
Pennock C J.....466
Pennock Sam'l S.....462
Pickelmann S.....467
Pierson F R Co.....465
Pittsburg Clay Mfg Co.470
Quaker City Mach Co..471
Queen City Seed House468
Randall A L 465
Raoux C 464
Reed Glass Co.....471
Reed & Keller.... 469
Reinberg Bros.....465
Roberts J H.....470
Roehrs Theo.....465
Roemer Fred.....465
Rolker A & Sons.....469
Rupp John F.....467
Sander & Co 466
Schneider Fred 466
Scollay John A. 471
Scott Alex.....465
Seaver A H.....467
Sebire P & Sons.....470
Shelmire W R.....468
Sheridan W F.....463
Siebrecht & Wadley....466
Sievers John H. 467
Situations wants.....461
Smith W E.....470
South Side Floral Co..468
Spaulding T H.....467
Spooner Wm H.....461
Starr Chas T.....462
Streby S O 468
Struck J N & Bro.....471
Sunderbruch H L.....462
Sunset Seed & Plant Co464
Sutherland Geo A.....463
Swayne Edward.....466
Syracuse Pottery Co...470
Tricker Wm..... 465
Van Horne Griffen & Co 471
Vaughan J C.....464 467
Waterbury Rubber Co.470
Weathered's Sons T W.472
Weeber & Don.....464
Welch Bros 463
Whilldin Pot Co 470
Whitton Stephen.....464
Wight W P... 471
Wittbold George.....467
Wolf E E 471
Wood Bros.....468
Woodbury D B.....464
Woodruff W B.....469
Young John..... ...463
Young Thos Jr.....462

HOLYOKE, MASS.—At the December meeting of the Horticultural Society E. D. Shaw gave a talk on palms and other tropical plants. The subject for the January meeting will be cold frames and small greenhouses, by W. F. Gale.

NEW ORLEANS, LA.—Mr. R. Maitre has been quite sick but is now able to be about again.

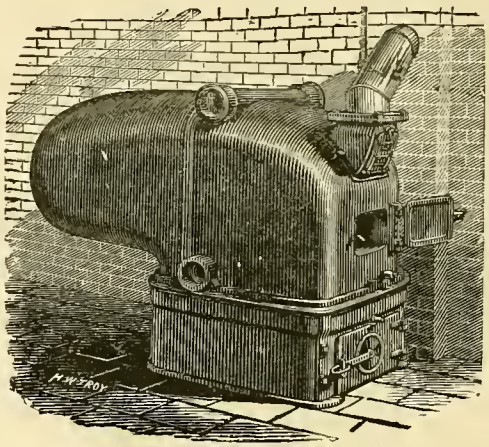
CYPRESS GREENHOUSE MATERIAL

HOT AND VENTILATING SASH

CLEAR CYPRESS SASH BARS

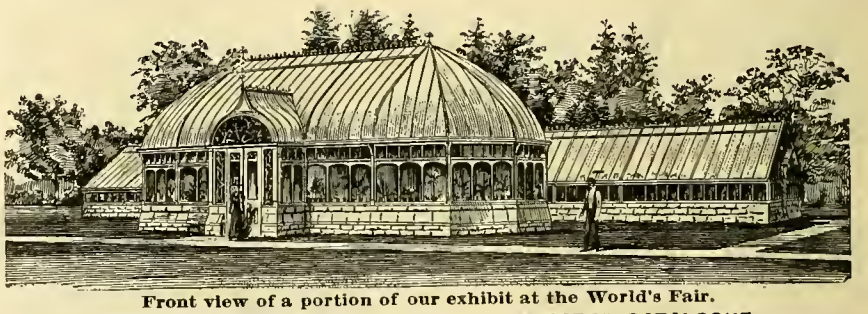
JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

GREENHOUSE HEATING AND VENTILATING
Horticultural Architecture and Building.



HITCHINGS & CO.
Established 1844.
233 Mercer St., New York.
FIVE PATTERNS OF BOILERS.
NINETEEN SIZES.
Perfect Sash Raising Apparatus.
Rosehouses, Greenhouses, Etc., of Iron Frame Construction, Erected complete, or the Structural Iron Work shipped ready for erection
Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Top.
SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.

LORD & BURNHAM CO.
Horticultural Architects and Builders,
STEAM AND HOT WATER HEATING ENGINEERS.
Plans and estimates furnished on application.

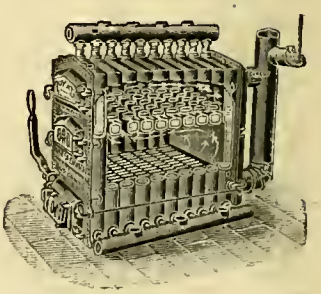


Front view of a portion of our exhibit at the World's Fair.
. . . SEND FOUR CENTS POSTAGE FOR ILLUSTRATED CATALOGUE. . . .
LORD & BURNHAM CO., Irvington-on-Hudson, N. Y.

ROYAL HEATERS

The right kind of Boiler in a greenhouse means success with flowers.

HART & CROUSE,
UTICA, N. Y.



THOS. W. WEATHERED'S SONS,
INCORPORATED.
Horticultural Architects and Hot Water Engineers
Send for Catalogue, enclosing 4 cents in stamps.
No. 244 Canal St., NEW YORK CITY.

THE AMERICAN FLORIST

A WEEKLY JOURNAL FOR THE TRADE

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. IX. *CHICAGO AND NEW YORK, DECEMBER 28, 1893.* *No. 291*

THE AMERICAN FLORIST

Copyright 1893, by American Florist Company. Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

322 Dearborn Street, Chicago.

Subscription, $1.00 a year. To Europe, $2.00.

Address all communications to

AMERICAN FLORIST COMPANY,

P. O. Drawer 164, CHICAGO.

Eastern Office: 67 Bromfield St., Boston.

SOCIETY OF AMERICAN FLORISTS.

WM. R. SMITH Washington, D. C., president; PROF. WM. TRELEASE, St. Louis, Mo., vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass, secretary; M. A. HUNT, Terre Haute, Ind., treasurer.

The new officers, to be installed Jan. 1, 1894, are: J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; secretary and treasurer the same as for 1893. The next annual meeting will be held at Atlantic City, N. J., August, 1894.

CONTENTS.

Roses—Chicago notes 473
—Crossing 474
—Hybrids in boxes 474
Carnations—Notes 474
—Helen Keller 475
—Nomenclature 475
First prize vase roses at Toronto (illus) 475
Judging floral arrangements 475
A horticultural reminiscence 476
New York 476
Boston 476
Second prize vase roses at Toronto (illus) . 477
Philadelphia 477
Chicago 478
Toronto 478
Chrysanthemum basket (illus) 479
Chrysanthemum change in name 479
Buffalo 479
News notes 480, 481, 484
Obituary—E. S. Dodwell 482
The seed trade 484
Baltimore 486
St. Louis 488
Denver 490

THE CHRISTMAS TRADE for 1893 was decidedly a curiosity when compared with previous years. The warm, unseasonable weather seems to have prevailed uniformly over most sections, and this unusual element makes it rather difficult to make correct deductions from the facts given in the various reports, but it is evident that production has now practically caught up with the holiday demand in the large cities at usual winter prices, and in the future, except in cases of unfavorable weather and on certain fancy stock that may be popular at the time and in limited supply, holiday prices will average nearer those that have prevailed at Easter. But it is equally certain that the only falling off in amount of cash returns—if any—is due to the financial depression recently experienced. In other words if Christmas prices were no higher than usual winter rates the people would quickly take all the flowers now produced at the holidays—and more.



Chicago Rose Notes.

Bowmanville is quite a greenhouse center. In and around this little village are upwards of a dozen establishments of more or less note.

The largest of this group is that of the Reinberg Bros., Peter and George, who have made rose growing their specialty. Last spring there were added to this already extensive plant a range of 20 new houses each 20x94, built on the new plan, with main exposure to the north, and it is in these houses we are naturally most interested. The day of our visit was unfortunately a very stormy one, in fact a blinding snow storm was raging and we could not judge satisfactorily the relative light admitted to these and the old style houses, but Mr. Peter Reinberg, who showed us through the place, is quite positive that at this season of the year when the sun is low the difference is very marked and decidedly in favor of the new style.

"You should have seen these houses yesterday when the weather was extremely cold, 2 below zero, at 10 a. m. the glass was covered with frost, but just as soon as the sun peeped out a few moments the glass on the south side was clear and the houses flooded with light. You see that the sun is just now, during the short days of the year, at the right angle to get the very best effect on the glass; besides as the pitch of the roof is steeper on the south side the snow is not so apt to lodge on the glass and leaves it comparatively clear."

"What drawbacks, if any, do you find in this style of house?" we asked.

"Well, there is a season in the fall of the year when I don't get the effect of the sun as I could wish. It is the time when the sun is just high enough yet to strike the ridge of the house or just glance over it. At this time the houses are darker than I could wish, but as a rule we have bright and sunny days at this season of the year, and it does not matter so much. The main points of advantage I find that in summer (and there is no doubt about this) the houses can be kept much cooler, which is a great advantage to the young stock, and now in the early part of winter when the days are short and often cloudy I find that every hour of sunshine tells in its favor. Yes, I certainly like these houses very much."

Of the above houses seven are planted with La France and four with Albany. These plants did extremely well all the fall, but at the present writing several houses are badly affected with black spot, the effect of overwatering, so Mr. R. thinks. Next we find two houses of Madame Pierre Guillot, which are a failure. The flowers are all bullheads and crippled. "I have tried this rose for the last time," remarked Mr. R. "These houses are ever with good light and plenty of heat and yet you see the result. During summer and early fall the blooms were satisfactory, but I can't do anything with it in winter."

The violets, five houses, have done nothing as yet. The plants are free from disease but show little bloom and few buds. Mr. Reinberg can't account for this, as the stock was handled the same as in former seasons when the blooms grown here were as good as any that went to market.

Entering another range of houses, mostly built on the long span to the south plan, we notice some half dozen houses, 20x120, of Beauties that are looking fine. The plants are mostly grown on raised benches, but we observed one house in particular with one lot on bench and the other in solid bed. The latter look the most thrifty, but examining more closely we find a great deal of blind wood, much more than on the benches. "Yes," remarks Mr. R. in response to a question, "I find that with Beauties I get better results from those planted on benches than from solid beds; in the winter months especially I cut more blooms off the former, besides I find that the blooms develop in better form.

Brides and Perles are looking well, but Mermets are not so good. "Bridesmaid is bound to take the place of this rose," Mr. R. remarks. "I am propagating all the stock I can and next year will grow it on a larger scale. Caroline Testout I also regard as a fine thing. Wootton I shall give up entirely. I have devoted a number of houses to this rose for years with rather indifferent success. Meteor is the red rose for me."

A set of 4 houses in this range look very good; there are some crippled flowers and some blooms off color, but not many. These 4 houses were rebuilt last summer on the same plan as those first mentioned. The Meteors are all planted on benches, while most of the Perles, Woottons, Brides, Gontiers and Mermets are in solid beds. In Mr. Reinberg's opinion there is very little difference in the result in either mode of growing with these varieties, but if he should have to decide between the two he thinks he would prefer the benches. "Yes, I plant young stock every year in solid beds as well as on benches."

A few blocks west of Reinberg Bros. is the establishment of Mr. H. . Mr

Bauske has the reputation of knowing considerable about rose growing. The stock certainly does look to be in tip top shape. Every plant in the whole range of houses was carried over from last year. Mr. B. does not, however, make a practice of growing his roses for two seasons, but anticipating a ready sale for his blooms for all of last summer on account of the Fair he decided to take his chances for the following winter, and up to the present time is more than satisfied with the results. Of course to keep the plants (all on benches) in a healthy and growing condition required constant and intelligent attention.

A bench of Meteor in the first house is the best we have seen around Chicago this season. The blooms are well formed and of good bright color. Brides also look very fine and are covered with flowers and buds, as also do the Mermets, although these are rather poor in color. Wootton is rather indifferent; the blooms, though fairly good form and color, are small. Mr. B. says he is going to discontinue growing the variety in favor of Meteor. Perles are unusually fine, although we noticed here and there a bullhead. A fine house of Gontiers is just in for the holidays, blooms of fair size and good color.

We find in this establishment two houses of fine Beauties, and this is what Mr. Bauske says in regard to them:

"I intended to plant my houses of Beauties with young stock and accordingly propagated a lot of young plants. These were doing nicely up to nearly the time for planting, when, through carelessness of one of my employes, the plants were neglected, black spot attacked them and they were ruined. I then determined to replant my old stock, but I had not enough to fill the space intended, so I took some stock of last season from one of my neighbors, who intended to throw it out, and filled my beds. Well, in all my experience as a rose grower I never saw a finer lot of Beauties than these proved to be."

The first crop in fall was certainly magnificent. We were fortunate enough to see them when at their best—stem up to the roof, blooms large and fine color. The second crop is now on and the plants are again covered with blooms, but the stems are much shorter, though still of sufficient length to make the flowers salable.

Mr. B. is keeping an account of his cut every day and reports that up to the present time he is considerable ahead of last season, with quality of bloom fully equal to last year's cut, which was produced from young stock. We shall report at the end of the season and compare the net result of young against two year old stock grown on benches. X.

Crossing Roses.

Some one inquired if a cross could be effected between the Perle and Meteor so as to get the Perle habit and Meteor color.

It seems reasonable to expect that something grand would be produced from the combination of two such fine varieties, but seedling roses are the most perverse things imaginable, going back on our expectations and being everything except what we want. Here they come, some single, some small, half double, dull colors, weak and strong growers, and if any are hybrid teas there will be the "lame, halt and blind," a pretty looking set. To select one even half as good as either parent would require a powerful pair of spectacles such as some people use when describing novelties. We may imagine that certain crosses would bring forth something wonderful; the only way to know what they will do is to try them. This would be a comparatively easy matter if all varieties had perfect flowers.

A perfect rose consists of a circular cluster of pistils surrounded with a ring of yellow stamens, five petals, five sepals, with an ovary for the base. Compare this with some of our finest roses; take a Mermet for example; here we find most if not all the stamens transformed into petals; look in the center and you will see a cone shaped bunch of a light green color; this is another curious transformation in which the pistils are changed into sepals, and sometimes when the flower is very large into imperfect flower buds. I have counted as many as five or six of these secondary buds inside one rose. Often the center will be made up partly of pistils and partly of sepals, these intermixed in varying proportions, no two flowers being exactly alike; occasionally there will be enough pistils to set seed, and semi-occasionally a flower will have its full quota. These peculiarities are not confined to the Mermet, but are common in all the largest teas, their development depending on the state of growth of the plant. As the flowers increase in size the stamens and pistils diminish in number, until the flowers are utterly useless as seed producers.

Once in a while a rose comes along apparently perfect enough to make plenty of seed, but absolutely refuses to do anything of the kind. The Perle I have tried in season and out of season every month in the year for over six years and have never succeeded in obtaining a seed. There must be some internal derangement not easily seen by the unassisted eye. It may be that the style is solid or something wrong with the ovule; dissected under a microscope its deficiencies might be discovered.

In the animal kingdom hybrids are not capable of reproduction; may we not expect this law to extend to the vegetable? At any rate hybrid teas, which are produced by crossing distinct species, seldom or never make seed that will germinate. The Wootton is said to be a hybrid tea, but so freely does it make perfect seed that there may be some doubt as to its being a true hybrid, unless it is the exception that proves the rule.

To cross a Perle and Meteor appears to be a rather difficult if not impossible operation, though perhaps it might be done indirectly by crossing a yellow rose with the Perle and a red one with the Meteor; this would give two sets of seedlings, one set being half Perle and the other half Meteor. The best from each set could be selected and crossed together. And they also might be crossed each by it own pollen parent, which would make our next seedlings, one set three-quarter Perle and the other three-quarter Meteor. Then the best of these could be crossed together as before.

What sort of flowers might be expected from these seedlings? Though the Perle and Meteor are such fine varieties, it is more than likely that their brother and sister seedlings were poor affairs, but for some unknown reason the Perle and Meteor sported into something very superior to the average quality of the set of seedlings in which they were produced. If this is the case, must we not consider the Perle and Meteor sports rather than pure breeds? That is to say they will not reproduce themselves true from seed, as well bred strains of primula and cineraria do.

The probabilities are that our seedlings would resemble in a greater or less degree the worthless brothers and sisters of all the varieties used, or some of their poor relations, still there is a possibility that some enterprising youngster might sport above the average of his set and surprise us by being even superior to his parents.

This seems to suggest that if by repeated crossing and careful selection or by any other means we can raise the average quality of our seedlings when the enterprising fellow does come along he will have a higher average to start from and consequently sport into something correspondingly more magnificent.

RICHARD BAGG.

Bridgton, N. J., Dec., 1893.

HYBRIDS IN BOXES.—The plan of forcing hybrids in boxes is in favor with Mr. Edwin Lonsdale, Chestnut Hill, Pa. Being able to move them at any time to any place that may be desirable is a great convenience.



Carnation Notes.

RUST.—This is the carnation growers' bugaboo. It behooves every grower of carnations to acquaint himself with rust so that the day it puts in an appearance on his place he can proceed to exterminate it. No one can afford to neglect his stock and allow it to get the better of him, and above all no grower should propagate from stock that has a single spore of rust on it.

Mr. Halsted has forestalled me on this phase of carnation culture and I think has given us about as practical and common sense a view of it as I have yet read. The dire effects of rust have been so magnified and ably illustrated that many have conceived the idea that if the rust gets on a plant or two they might as well give up carnation culture. Experience has taught us that while we can not afford to let it get a start on our stock we need not give up in despair if we find a little on the place. The places where you will not be able to find a little are few and far between; at least I have not found many this season.

The first time I saw rust it was on a batch of cuttings I had procured of a new variety. A few weeks after they were potted up seeing that the skin on a few of the leaves was bursted and a dark brown powdery substance growing therein I immediately wrote to the party who had sold me the stock and wanted to know what this new disease was they had sent me and a good remedy for the same. The reply came: "Oh, that doesn't amount to anything; they will grow out of it all right." What little knowledge I had of fungoid disease led me to keep them separate from my other stock and they were planted that winter in a separate house, but instead of growing out of it they seemed to be growing into it, and I came to the conclusion that the best thing I could do was to pull them out and burn them. This was done with all but one variety that was so good I could not give it up. On this I used the ammoniacal solution of carbonate of



FIRST PRIZE VASE OF FIFTY ROSES AT THE TORONTO SHOW. EXHIBITED BY JOHN H. DUNLOP, TORONTO.

copper so strong that it killed all of the foliage and the young branches; afterward these plants sprouted out and I used the new growth for propagating, and from that same stock up to this day I have been propagating without any sign of the rust.

I fully agree with Mr. Halsted in saying that if you find a few plants in your house it is best to pull them out at once and burn them. But if you should happen to find your whole house more or less affected and do not have some other good use for the house it would certainly be poor policy to pull the whole house out and get nothing from it. As an illustration of this I will cite a house up the state that came under my notice. It was a house of Silver Spray and about as badly affected as anything I ever saw. After Christmas some boys were employed to pick the rusty leaves off; this did not cure the rust but it checked its progress considerably and the finest crop of flowers, both as to quantity and quality, that the party ever grew, was pulled from those plants.

Some varieties are claimed to be rust proof, and up to yesterday I thought so myself, but one lives to learn, and I learned that Daybreak, which I always upheld as being absolutely rust proof, would take rust along with the rest. I was visiting at a place where a rusted variety was planted alongside of Daybreak, and there were a few places where the rust had taken hold on the Daybreak. Other varieties are claimed to be rust proof, but I have no doubt that with very hard coaxing they would take it also. It would certainly be very nice if we could establish a race of carnations that would be absolutely proof against rust, and I have no doubt that with very careful selection it can be done.

Some growers say that varieties that were badly affected with rust last season are almost free from it this season without having received any special care. Others who did not have any rust on their place last season and did not buy plants from any one have it this season. It looks as if we were all bound to get it at some time or other and about the best we can do is to make what we can out of a bad bargain. We will learn how to handle this rusty stock and at the same time to get rid of it, let us hope, in a few years' time. Some claim that fostite will rid the plants of it; others that the various formulas of Bordeaux mixtures will do the same; for myself I have found nothing that would entirely rid the plants of it without killing the foliage. If any one knows of a good cure he will confer a favor on all carnation growers by publishing it. ALBERT M. HERR.

Carnation Helen Keller.

During a recent visit to the establishment of Mr. Edwin Lonsdale, Chestnut Hill, Pa., I noted many interesting seedling carnations. Far and away the best of these is Helen Keller, named after the wonderful young deaf and dumb girl. The plant is of robust growth, bearing large, well formed flowers on long, erect stems. The color of the blooms is somewhat similar to that of Chester Pride, being white with pink dashes, and it is very fragrant. Mr. Lonsdale has a whole house of this seedling, but he does not intend offering it for sale until the spring of 1895.

An idea which is popular here is to stake carnations by means of a wire rod bent like a croquet hoop. This gives each plant a firm, double support and is very neat in appearance.

JOHN WELSH YOUNG.

CARNATION NOMENCLATURE.—We have received from Mr. A. M. Herr, chairman of the committee on nomenclature of the American Carnation Society, a copy of a pamphlet the committee is sending to carnation growers in an endeavor to gather together for a report to the society at its coming meeting in Indianapolis all the information possible regarding the behavior of the different varieties in various sections of the country, in solid beds and raised benches, in light and heavy soils, and to make the official list of varieties full and complete. To accomplish the above the list of varieties now recorded has been printed with a blank space after each one for the entry of notes regarding same. It is to be hoped that every grower of more than 1000 plants of carnation will secure one of these blanks, fill it out with his comments and return same to the committee before January 20. Blanks may be had by applying to the chairman of the committee, Mr. A. M. Herr, Lancaster, Pa.

Judging Floral Arrangements.

The judging of floral arrangements at the recent Chicago exhibition brought out several very important points that should be very carefully considered in making up schedules for future shows.

One of the most important seems to be a scale of points, if judging is to be done by this method. The scale used in judging the table decorations at our last show was as follows:

	points.
Adaptability for purpose intended	45
Arrangement and effect	35
Quality of material	20
	100

It seems to us that by the above too much prominence is given to adaptability. To illustrate: Any arrangement, no matter how indifferent, providing it be either high enough or low enough not to obstruct the line of vision, would be adaptable and would under the rules score the full 45 points. This was shown to have been the case in the decisions of the judges. Thus almost one-half of the points are covered and the exhibitor has got to overcome the remaining 60 points by arrangement, effect and quality. Quality should not stand very high and 20 points are probably enough. But arrangement should in our judgement stand first, and we think that if the first two were reversed the scale would be more just. [This point seems well taken. While adaptability is essential it should not be given such weight as to pull into prominence an arrangement that possesses little in addition to this one essential. It seems to us that the better way would be for the judges to first bar out all entries that were not adaptable and then decide between the remaining entries on a scale of points covering merely color harmony, composition (arrangement), and quality of material. To our mind the first two should have about 40 points each and the last about 20 points.—ED.]

Little if any dissatisfaction was shown by the exhibitors concerning the decisions of the lady judges. Had the scale been as indicated above the result would probably have been different.

How shall we construe the word "basket?" If our schedule reads best arranged

basket, what would be admissable? In our recent contest in the class for best arranged basket of chrysanthemums there was entered an arrangement in the shape of a vase, the flowers arranged to carry out the idea of a vase. Are we to call it a basket because the frame is made of celluloid or wicker work? We hold that no matter whether of glass, china, gold or other material, so long as the form is that of an urn or vase, and the arrangement is such as to carry out the idea, we are not warranted in calling it a basket.

Another instance was in the class for rose baskets. In this class a vase of celluloid and willow splints, three feet high, was entered as a basket. This was filled with long stemmed American Beauties and a beautiful "vase" it was, but would you call it a basket?

Again, we noted in the class for chrysanthemum baskets a boat. This boat had oars and was placed upon a mirror to represent the water. The arrangement inside the boat was kept clearly to the lines; no stretch of the imagination could possibly call it a basket, and yet it was not ruled out of this class, as the judges did not feel warranted in doing so for want of a proper definition.

It would seem that in future schedules there should be an exact definition of what the committee in charge considers a basket, that the judges may be relieved from the necessity of guessing at their intentions.

Another point: What constitutes a 24-inch basket? Is the measurement to be when filled or unfilled, and is it to be measured across or in height? These questions may seem silly, nevertheless the matter seemed rather difficult of decision on a recent occasion. And when a class calls for basket of 20 inches in *diameter*, and an oval basket is entered which way do you measure the diameter? The man who enters a round basket says the short way and the man who enters the oval one says the long way of course. The schedule should be so plain that it would be impossible for such discussions to arise. B.

A Horticultural Reminiscence.

In 1862, when Lilium auratum was first exhibited before the Mass. Horticultural Society, the late P. B. Hovey asked permission to take pollen from the flower on exhibition to experiment in hybridizing some of his fine collection of Lilium speciosum, including the beautiful seedling Lilium Melpomene. He was so successful that in 1876 the result, Lilium speciosum Hoveyii, was presented for the society's prospective prize, which was awarded accordingly in 1879.

Francis Parkman had several years before received a similar prize for Lilium Parkmanii, which was also a seedling, resulting from the hybridization of Lilium speciosum in some of its darker forms with pollen from the original auratum blooms.

We are thus shown some of the progressive steps in the development of modern horticulture. WM. H. SPOONER.

Jamaica Plain, Mass., Dec. 1893.

DO YOU WANT an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our trade directory and reference book.

THE AMERICAN FLORIST and *Gardening* together to one address for $1.75. Send orders to the American Florist Co.

New York.

We have passed through the most remarkable Christmas weather on record. A whole week of warm and sunny weather, each day like a day in spring, is a rare occurrence in December. It has had the natural effect on the cut flower trade, that is, over-production, and consequently low prices and a lack of activity throughout. It could not have come in a worse year, for it is only a part of a very discouraging fall experience, and there is little prospect that the rest of the season will improve matters much. Those growers who have been looking forward to the holidays with some hope that they would realize something from their crops at that time to offset the unfavorable results of the early fall are plainly doomed to disappointment.

The trade in green of all kinds has been splendid, and must have proved very profitable to those retailers who have made any special effort in that line. Holly in all forms has never sold so well, and this in spite of the fact that there has been an unusually large quantity of very poor holly in this market. Wreaths of green in variety, balls of green studded with scarlet berries or bunches of scarlet immortelles and suspended by brilliant ribbons, have sold about as fast as they could be prepared. Decorative plants, singly, in celluloid pots or in collections in jardinieres and fancy baskets and tied with the inevitable broad ribbon have also been in great demand. Ericas and white azaleas with magenta bows, ardisias with scarlet bows, cyclamens with white bows, fern baskets in white, with the handles decked with sprigs of holly and mistletoe, etc., were to be seen everywhere, and detracted the attention of customers from the idea of buying cut flowers, and the retailers from any thought for the morrow as far as securing cut flower stock by giving advance orders. The retailers were satisfied to know that they were making good profits on these other goods, and the weather was such that they knew they had much to gain and nothing to lose by quietly waiting and taking their chances on such cut flowers as they should require when the time should come. So but little stock was engaged in advance and the wholesale dealers found themselves badly at sea all along and unable to give any assurances or comfort to their growers who anxiously pressed them for promises.

The uncertainty had the effect of causing a few growers of the class who blame their commission man for all the setbacks and misfortunes the cut flower trade suffers to transfer their allegiance and their goods to other houses, a performance which the commission men regarded with serenity and which the growers regretted almost as soon as accomplished. But the troubles which are besetting the trade at present are not to be laid bodily at the door of any department of the business. As it is the growers and the wholesale dealers suffer together, and the retail dealer is the more fortunate.

Stored roses, carnations and violets were to be seen in more or less quantity everywhere, but the practice was not indulged in to the extent it has been in former years. When stored stuff made its appearance it was quickly recognized and received but scant attention. Some of the best growers sent their goods twice and three times a day, and thus did all they could to furnish only fresh and salable stock.

In the two or three days preceding Christmas there was but little extra activity noticeable at the market or at any of the wholesale establishments, a totally different state of affairs from what has been the rule heretofore. The advance on prices of ordinary stock of any kind was not great, and was maintained with difficulty on anything except such things as American Beauty and Meteor roses and Daybreak, Buttercup or Helen Keller carnations, which are not in large enough supply to satisfy everybody, and which on this account or because of high quality can be depended upon to bring extra figures. Roman hyacinths were very badly overstocked, and quantities of them must have been lost. Violets, too, were unexpectedly abundant. Some growers spoiled their violets by soaking them with water in packing, and when received by the dealers the flowers were completely ruined. There were a good many single violets about, which came from Philadelphia. There were a few yellow daffodils and tulips to be seen, the former of fair quality for such early forcing, and the latter of no use whatsoever. Harrisii lilies were abundant with fair demand. Smilax could not be handled at any price. The final figuring up of Christmas trade in New York will be a disappointment to the growers and wholesale dealers generally, and fairly encouraging to the retailers, especially those who were willing to handle everything and to accept such orders as came their way, however small. It has not been a good time in which to be too independent.

Boston.

It is not unlikely that Boston has seen the last of big holiday prices on cut flowers. Certainly after this year's experience it will take an unusual amount of pluck and blind confidence on the part of any grower who will hold out for big prices on similar occasions in the future. Several causes have contributed to the remarkable, but not entirely unexpected, smash-up which has taken place. The weather is one cause. Instead of the customary Christmas temperature it has been just such weather as is seasonable for a late Easter, mild and spring like, and the roses and carnations have revelled in it. Another reason for the condition of the cut flower market is the unmistakable transfer of public favor from cut flowers to growing plants for boliday gifts, a result caused largely by the dissatisfaction with the prices demanded for cut flowers in former years.

The retail dealers will not suffer. It is upon the growers that the load comes, and to some extent upon the commission men. The retailers' profits on cut flowers in previous seasons have been necessarily small. This year they buy at their own price and all accordingly. They all report a tremendous sale of plants of all kinds. There have been some good azaleas in the market and for these the demand was extra good. Holly has sold as never before. The amount handled here this year was at least double that of any former season. Mistletoe was not very much in evidence, but what there was offered was of excellent quality, and of the English sort exclusively.

In common with all other industries the cut flower trade has been feeling severely the effects of the prevailing business stagnation throughout the fall, and all through December prices have been terribly low, and with a supply in excess of the demand, notwithstanding the fact that the weather was steadily severe and such as to retard production of blooms.



SECOND PRIZE VASE OF FIFTY ROSES AT THE TORONTO SHOW. EXHIBITED BY H. DALE, BRAMPTON, ONT.

So it was not entirely due to choice that Christmas week when it came found the cellars and refrigerators of the rose and carnation growers filled to overflowing with unsold stock. While there was a disposition manifested here and there to hold back stock in hope of enhanced prices, yet it is true that the market was so poor that there was not much chance to do anything else with much of the stock but to lay it away and take as good care of it as possible. There was a widespread presentiment that disaster was coming, but no one dared to risk bringing the general wrath down on his own shoulders by being the first to break and unload for whatever price he could get. Thus much valuable shipping trade was lost and the smash came finally just the same.

Notwithstanding the big overstock and low prices on roses and carnations of ordinary variety and quality, however, there were some pretty good prices paid for extra quality blooms—1.50 to 2 for the common run of carnations and 4 for well grown fancy, 6 to 8 for every day Mermets; 20 to 25 for fine specimens was about the way they went. The grower who has something better than anybody else has practically no competition and can make his own price almost.

The color most in demand was bright red. Scarlet carnations were scarce and sold readily at double the rates obtainable for white. For the same reason Gontier roses were also sought after and showed better results than Mermet or Bride. Meteors are not plenty in this market at any time and they had their own way entirely on both color and price. Harrisii lilies, callas and poinsettias all sold well, lily of the valley fairly well, Roman hyacinths and white narcissus poor and violets were badly overstocked.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Philadelphia.

The Christmas trade has been quite satisfactory, all hands seeming to have had a good business. Christmas eve coming on Sunday gave a good chance to get out the work, and accounts in a measure for a falling off in the attendance at some of the churches. Although a great deal of the work was sent out Saturday the bulk of the orders was for Monday morning.

Am. Beauties and Belles were the popular flowers and were in great demand, the dealers being at their wits' ends to get enough for their orders. The price was from $40 to $60 per hundred, and he was a lucky dealer that could get more than 25 from a grower at a time; even a half dozen was received with thanks. Speaking of Beauties it would be interesting to know how long they can be kept without falling apart; it would seem as if some that were offered for the Christmas trade might have been cut about foot ball time, they being very much "off side" as regards color and presenting altogether a very tired appearance; but the price was there, accompanied by the assurance that they were fresh cut. One grower was asked to send in some roses Friday night, but said he would rather wait until Saturday morning, when he would send in fresh from the plants cut that morning. All the larger teas were in good demand and sold for $15, a few going at $12. Cusins and Wattevilles brought 10 to 12, and Gontiers, Perles, etc. were 8. J. Heacock had a lot of Brunners that brought 70, while some Laings sent in by J. Burton sold for $40.

Carnations were very fine and brought good prices, ranging from $2 to $8 per 100. The great bulk sold for $2 to $2.50. Good fancies like Ophelia, Sweetbrier and Edna Craig brought 5, good Daybreaks 4, and the bright particular star, Helen Keller, $7. Of this latter variety there are no seconds, so there is no trouble to name the price; it would have brought 8 as easily as 7, as it was sold readily over the counter for $2 per dozen, which we think breaks all records, at least in this market.

Romans were very plentiful and $3 was high, while the bulk of the stock sold for 2. Valley brought 4 and narcissus 3. Double violets were quite plentiful and sold for 2 to 2.50, but mostly for 2; they were very good but the growers made the mistake, so often made, of holding them back for the holidays expecting to get a big price and spoiled the market by overstocking it. There has been a good demand for these flowers for the last few weeks and all could have been sold that are now likely to go to waste. It's the old, old story.

Smilax is very plentiful and sell rather slowly at 15. Quite a quantity was used, however, and we expect to soon see it quite scarce. The camellia seems to have dropped out for good, as we have not seen a flower on sale this season, and men used to gladly give $50 a hundred for them for the holiday season. Will the Beauty ever drop out?

G. C. Watson is laid up with the grippe. J. Crawford is just able to be about, having had a severe attack of the same malady, and many others of the trade have been similarly affected. K.

The weather for delivering Christmas gifts in flowers could not have been improved upon, even if it had been prepared to order. The dull times do not seem to have had much effect upon the Christmas trade, every one of the florists seemed to be as busy as bees when called upon on the evening of Saturday. The Sunday intervening seems to be an advantage. It gives all an opportunity for a good night's rest before the great strain is over. The delivery is scattered over the three days, which must be a decided advantage to both grower and dealer.

At this writing there seems to be no great scarcity of any of the staple articles, and the demand is largely a question of the skill of the salesman to move that stock which is the most plentiful. Large roses, Beauties and Belles, are called for, and orchids. Cypripediums have played a large part in the flower trade this Christmas. Mr. H. H. Battles states that he has sold at least 1,000 flowers of the insigne alone during the month of December. Cattleyas of course are in demand, and there seemed to be enough to fill all the orders. Adiantum Farleyense was never so plentiful in Philadelphia as it appears to be now. It creates a good impression on would-be purchasers, and if the plants could only be trained to take care of themselves after they leave the florist they could not fail to become very popular.

In addition to George Craig's large trade for cut flowers he found palms in good demand. Mr. Craig also had some pot plants of chrysanthemums. There were many inquiries for them, and good plants of chrysanthemums would sell as freely at Christmas as any flowering plant that could be offered.

Heather (Erica persoluta) was seen in good form in many of the stores. Evidently this species will stand a higher temperature than has heretofore been thought advisable by growers in general to give heaths. It makes a very pretty plant for a Christmas gift. Some double white azaleas were in good shape, and there are few more appropriate flowering plants for this season. Poinsettia pulcherrima added color to many of the flo-

rists' conservatories. They were evidently grown from green wood cuttings. Robert Crawford was very well satisfied with the outlook for a profitable holiday trade. We saw a few stevia plants here and there, but I really can not understand who would buy this weedy looking plant for a gift. It ought to be a back number.

Violets as a flower seemed to be in as good demand as ever. I saw some of the newer "Lady Hume Campbell." It has long stems, but the color of the flower seems pale, about the same shade of color as the old Neapolitan. The claim for this new variety is that it has so far been free from the disease which has made the growing of violets so precarious an undertaking for some years past. But I am afraid that its color will be against its popularity. Time of course will tell.

Good carnations have sold at fair prices. All the good pinks brought $5 per 100—Edna Craig, Grace Battles and Sweetbrier—without any kicking. Portia is still the best scarlet, and the best flowers of this variety have sold as high as the good pinks. Helen Keller, the new fancy, an improvement on Chester Pride, comes into market more uniformly good than any variety we have noticed. Daybreak, when it is fine, is very fine, but some growers cannot seem to fathom its requirements, for there are some quite indifferent flowers offered for sale. Lizzie McGowan is certainly the best white we have, both for grower and retailer. Crimsons are not very plentiful. Coronet is about the best, but this is no larger than Portia. We want a better crimson. A first-class crimson would sell well, but the demand would not equal that of the pinks and some of the fancy sorts. Buttercup comes under the latter head, and it is certainly the best of its class on the market up to the present time. Unfortunately all growers cannot succeed with it. Good Buttercup flowers should never sell for less than from $4 to $5 per 100.

Pennock Bros. were busy, as they generally are, though they always have time to exchange the compliments of the season. Robert Kift was almost too busy to talk; he did take time, however, to say that he was getting $2 per dozen for Helen Keller carnation. Heron & Nisbet also seem to have a run on that variety. Mr. Heron says it is the best carnation he has ever seen. L.

Chicago.

Christmas proved a surprise to most in the trade, business being much better in every way than was expected. Indeed, the sales were really larger than last year, but in most cases prices fell considerably below former averages. However, neither wholesale nor retail men are inclined to complain, and as a rule they feel very cheerful over the result of the Christmas trade. Poor stuff had no chance at all, but the good flowers were disposed of rapidly. The weather was very unfavorable, having been very warm for some days, and Christmas itself turned out very dull.

In roses the colored sorts went better than white, and Beauty and Meteor went best of all. Some Beauties were retailed for $15 a dozen, but a larger proportion went for $9 to $12. Meteor was $3 to $3.50 a dozen retail and a prime favorite. Gontiers sold very well, in consequence of the liking for red flowers, while Bridesmaid was a much better seller than Mermet. In carnations the colored sorts were rather scarce, and Daybreaks were not in quantity enough to fill orders. The white flowers were sold for a lower price than colors and fancies, the three classes averaging $1, $2 and $3, with perhaps a little increase in some grades. The demand for violets was far in excess of the supply. Romans were a glut, but still they sold; Harrisii went well at $12.50 wholesale, but there was no demand for callas. Smilax could not be given away. Orchids sold excellently; Corbrey & McKellar report that their demand was larger than at any previous time. Some very good Vanda cœrulea, phalænopsis, angræcums and cypripediums were noted at their place. There were scarcely any pot plants sold by the wholesalers. Some unusually good cyclamens were offered by Corbrey & McKellar, but they were too high priced for this market.

Among the retailers the general expression is one of satisfaction. P. J. Hauswirth says his sales were materially larger than last year, though prices were lower. He sold violets rapidly until the available stock was gone, this flower being in great demand; in roses the Beauty led. Colored carnations sold excellently. Buyers were slow in placing their orders, most of them coming in the last two days before Christmas, and there is no doubt the store men were equally conservative in purchasing the supplies. This had something to do with keeping the prices at a very reasonable level. Holly sold very well, and was fine; mistletoe was rather poor. Colored wreaths of cape flowers sold well. Mr. Hauswirth does not handle plants, and his Christmas trade was confined to flowers, as was the case with most Chicago retailers.

At E. Weinhoeber's, which may be taken as representative of the North Side, a good trade was reported, and in most lines prices were about the same as last year. Flowers in all classes sold out clean, though the same preference was noted here as in other cases for colored roses and carnations. Red tulips, the first in the city, sold well, so did some extra fine mignonette. Harrisii sold in advance of callas. In addition to cut flowers this firm sold a large quantity of plants. Flowering plants were confined to primroses and cyclamens; the primroses sold admirably in baskets or pans, either alone or mingled with ferns. A quantity of shapely little mandarin orange plants, the only case where these plants appeared here, proved a great success; they were either sold singly or in baskets or pans, mingled with ferns. These little oranges are excellent for holiday trade, and it seems a pity that more do not appear in the Chicago market, which is very deficient in good pot plants. Palms did not seem to sell as well as ferns. Comparatively few flowers were used by the churches, they relying more on the effect obtained by the use of holly and other greens.

Over on the west side H. F. Halle needs special mention, for he is really the only florist in town who made a special effort in decorating his store for Christmas. His window was a most attractive one, having at the back arches of white and delicate green, hung with Christmas wreaths. The window itself was filled with palms and ferns, with a few white primroses and Harrisii lilies. Mr. Halle reports an excellent trade, exceeding that of previous years. All classes of flowers sold well, and there was quite an increase in the demand for bouquets. Among plants the more expensive ones were little called for, but plenty of ferns and fern baskets were sold, also primulas and azaleas. Araucarias, which sold well last year, were not called for this; perhaps they were rather too expensive for prevailing conditions. But the primroses were in excellent demand. Mr. Halle spoke of the lack of good pot plants in the Chicago market; much of the material sold in the east cannot be obtained here and is entirely overlooked by local growers.

The wholesale men report an excellent shipping trade, though most of the orders were placed at the last momeut. And it seemed likely to continue this week. On the 26th a very small cut was sent in by the growers, who had been cutting very close for some days, and this supply was soon sold out. Prices are less than those given out for Christmas, but they hold up very well, and the trade in Chicago have something to be grateful for—rather more it seems than their brethren of New York.

Aug. Jurgens is cutting some very fine McGowan carnations.

Toronto.

A most harmonious and lively meeting was that which the Gardeners' and Florists' Association held last Tuesday for the purpose of electing its officers for the coming year. After routine business had been gone through with and the president, secretary and treasurer had presented their annual reports, which were highly satisfactory, nominations and elections were in order, and compared with other years they were got through with in a surprisingly short space of time with the following result: Mr. A. Gilchrist, Toronto Junction, was elected president by a large majority, and the rest were elected by acclamation; Mr. W. Muston, Deer Park, 1st vice-president; Mr. Geo. Reeves, Supt. Reservoir Park, 2nd vice-president; Mr. A. H. Ewing, secretary; Mr. Hermann Simmers, treasurer; and Mr. E. H. Carter, assistant secretary. There were thirteen nominations for the executive committee, out of which the following are the chosen ones: Messrs. G. Vair, G. Manton, S. E. Briggs, A. Macpherson, C. Arnold, W. Hill and C. J. Tidy.

After the battle was over and the debris cleared away Mr. Geo. Vair, the G. O. G., got up on his legs and on behalf of the association presented the secretary with a purse of money as a slight recognition of his services during the last few years. The secretary did not seem to think there was anything slight about it and appeared to be dumbfounded, as he had no idea that anything of the sort was going to occur; he, however, managed to make some slight acknowledgement and congratulated himself that he had done all the speech making he intended to do that night, but he did not get off so easily, for some one brought in a large parcel and Capt. McMaster came up to the table and in a very neat and flattering speeech presented him with a handsome marble mantelpiece clock on behalf of the members and others interested in horticulture, himself included. The secretary tried to protest and muttered some words of thanks, sat down and gazed at the clock. He has since desired me to convey to the members through these notes his most sincere thanks and thorough appreciation which he felt quite unable to adequately express at the time, having been altogether taken by surprise and quite unprepared.

Mr. Tidy brought up the annual dinner question and after some discussion the



SECOND PRIZE BASKETS OF CHRYSANTHEMUMS AT CHICAGO SHOW, ARRANGED BY THE GALLAGHER FLORAL CO.

president appointed a committee to make inquiries and report at the next meeting.

The executive committee was asked to meet and arrange for having essays read at meetings during the coming year.

Trade promises very well for Christmas considering the hard times. Carnations will be short and prices firm, roses ditto, violets ditto, Roman hyacinths plentiful.

Manton Bros. seem to have a corner in white azaleas in bloom. Plant trade has been very good this week. A palm for the window appears to be becoming a favorite Xmas present.

CHANGE OF NAME.—Owing to the fact that the name "Peach Blossom" had been already registered with the secretary of the Chrysanthemum Society by another person, Mr. T. D. Hatfield has changed the name of his new chrysanthemum to "Prairie Rose."

Chrysanthemum Basket.

Our illustration shows the second prize basket of chrysanthemums at the Chicago show. Several varieties were used, the "other foliage" consisting of Adiantum cuneatum and Asparagus plumosus. The picture shows the arrangement so plainly that any further description seems unnecessary.

Please mention the AMERICAN FLORIST every time you write to an advertiser.

Buffalo.

At present writing (Monday a. m.) it is early to report what Christmas trade has been, but it is safe to say that it has been quite up to general expectations. As the chief topic with every one of late has been hard times an increase of business was not expected. A1 roses have sold well at good prices, but poor stock, of which there has been too much, has been a drug. Violets are selling well, and most of those coming to Buffalo are of fine quality. No flowers are in as good demand as fine carnations. The two varieties that have the call are Daybreak, easily first, and the new pink variety Wm. Scott.

Plants of most all kinds have sold well. There is a decided increase in the demand for small palms for Christmas gifts, palms that could be sold for $2 to $3 being in great demand. Azaleas, poinsettias, cyclamens and primroses have gone lively, and the azaleas above all else. There were a few hundred fine mums left in town and they brought good prices. They were Harry Balsley, E. G. Hill, Roslyn and La Fortune.

The din of Christmas rush is subsiding, but we look forward to good business for several weeks, as many big social events are yet to come and some are right here. Last year there was more holly than could be disposed of, and the ground pine was the scarcest. This year everybody wants holly and there is none to spare. Your correspondent's experience is that holly bought through regular florist supply houses has been very fine, while that coming through some eastern produce houses has been mere rubbish. Further particulars later. W. S.

News Notes.

PEORIA, ILL.—Mrs. May Cole has opened a floral store on Main street.

TOPEKA, KANS.—R. J. Groves, Jr., has started in business here at 1173 to 1177 Clay street.

BRIDGEPORT, CONN.—The Loman Floral Co. has opened a handsome florist establishment at 195 State street.

FAIRBURY, ILL.—John Milne & Son have added three new greenhouses, two 12x80 and one 18x80, heated by hot water.

HARRISBURG, PA.—The annual meeting of the State Horticultural Association of Pennsylvania which was to have been held in Reading will be held in this city instead on January 16 to 17.

SPRINGFIELD, MASS.—The Springfield Amateur Horticultural Society held its third annual banquet in Grand Army Hall on the evening of December 15. Previous to the supper a meeting was held at which nominations were made for officers for the next year. The election will take place on January 5, 1894.

WELLSVILLE, N. Y.—The greenhouses of Stillman & Co., which were badly damaged by fire on November 16, the total loss amounting to over $3,000, have been rebuilt and are once more in running order. The new boiler house and office have been constructed entirely of brick and glass and is thoroughly fire proof.

LANCASTER, PA.—In your Lancaster notes in last issue the item about the Bitner estate was not quite correct. Mr. Barr purchased the glass he now has and did not lease it. The item should have read: "The Bitner estate has been divided, a portion of the houses being run by J. W. Bitner & Co., while the rest, a new range of houses containing about 20,000 feet of glass, has been purchased by Mr. B. F. Barr."

HARRISBURG, PA.—Mr. Wm. Badger died November 13 in his 30th year. He was much respected and the loss is severely felt by his many friends. He leaves a widow and one child. Mrs. Badger will keep the business going and has engaged Mr. W. F. Schmeiske as foreman. Business is picking up a little. It is reported that one of the local growers sells carnations at 15 cents a dozen and roses at 30 cents a dozen.

NEW DIRECTORY.

We have decided to issue a corrected edition of our

TRADE DIRECTORY AND REFERENCE BOOK FOR 1894

February next.

In addition to the changes in the list of those in the trade the lists of roses, chrysanthemums and carnations will be brought up to date. All the other reference features will be retained and several important new ones added, among which will be

Seasonable Hints for the Year,

covering each week separately, prepared by Mr. Wm. Scott, whose seasonable hints published in the FLORIST have been so helpful to our readers during the past year. This calendar of operations, in condensed form, and where it can be readily consulted at any and all times, cannot fail to greatly enhance the value of the book.

Change in the Size of Book.

In view of the growing value of the book for frequent reference we have decided to reduce the size of the page sufficiently to make the volume of handy size for carrying in the pocket. This change will make the printed part of the page 3 1-2 inches wide and 6 1-2 inches long, instead of 4 1-2 by 7 1-4 as before.

ADVERTISEMENTS.

In view of the reduction in size of page we have reduced the rates for advertisements to the following, each including a copy of the book:

FULL PAGE, - -	$25.00
HALF PAGE, - - -	15.00
QUARTER PAGE, -	9.00
EIGHTH PAGE, - -	5.00

Every adv. will be placed opposite important reference matter that will be frequently consulted by buyers of the book.

Send Orders Now

to get the best positions.

AMERICAN FLORIST CO.

P. O. Drawer 164. **Chicago.**

KANSAS CITY.—A florist of Jefferson City wants to know whether roses have been retailed at 50 cents a dozen in this city. He says a lady customer told him she could get all the roses she wanted for 50 cents a dozen in Kansas City. This seems a mighty low price just before the holidays. Can any of the boys answer his question?

SHEBOYGAN, WIS.—J. E. Matthewson, for some time foreman at Currie Bros.' greenhouses in Milwaukee, has leased the greenhouses of Otto Schucht in this city. The item recently published was not exactly correct. Wm. Schucht & Co. succeed to the store business of Otto Schucht, but not to the greenhouse department.

ELMIRA, N. Y.—Mr. Grove P. Rawson will start January 6 on a three months' trip to South America in company with the famous English naturalist, the Hon. J. Quelch, C. M. Z. S.

JOHN C. MEYER & Co. of Boston, the makers of silkaline, have removed from their old quarters to 13 Otis street.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By a young man; German, single, 21 years of age, as general greenhouse assistant; good experience. Address
C W, 7000 Addison Ave., Chicago.

SITUATION WANTED—By good grower of roses, carnations, violets, etc., also good propagator; 10 years experience; good references. D P,
care Nielson, 835 Rockwell St., Chicago.

SITUATION WANTED—By an experienced florist; German, single, 31 years of age, as rose grower, tea and hybrids, and also understands growing cut flowers and forcing bulbs. Address
L, College Point, L. I., New York.

SITUATION WANTED—By gardener and florist; life experience; grower of roses, carnations, violets and general stock; also a good design worker, wants situation by February or March; age 31. Address S J, care American Florist, Chicago.

SITUATION WANTED—In general propagation and growing of all requisites pertaining to first-class plantsman, in commercial place, including propagation, and care of nurseries, ornamentals, roses, evergreens, shrubs, herbaceous plants, etc. Executive ability, experience, sober and industrious habits. Best recommendations. PRACTICAL, care Am. Florist.

WANTED—A young man or boy who has had years of experience in a vegetable and floral establishment, who is strictly honest and sober; steady employment guaranteed. Address
C. W. FAUST, Lock Box 55, Canton, O.

FOR RENT CHEAP—Term of years; security required. Graperies, mushroom, hothouses; good order; grow anything. Trade established. Express passes doors, con. Phila., New York, Wash., Balto. Offer closes Jan., 1894. Box 2672, West Chester, Pa.

ROOTED CUTTINGS.

	Per 100
Alternantheras, Versicolor, Rosea nana, Aurea nana, Tricolor and P. Major	$.50
Achyranthus of sorts	1.00
Coleus of sorts	.50
" best new and old	1.00
Parrots Feather, Fuchsias	1.00
Mexican Primroses, 3 kinds	1.00
Heliotrope	1.00
Fittonia, red veined, $2.00; silver veined	1.50

PLANTS.

Alternantheras, full of cuttings	3.00
Begonias, assorted; Lantanas, assorted	4.00
Fuchsias, ass't; Heliotrope, ass't $3.00 and	4.00
Abutilons, assorted	4.00
Echeveria glauca $2.00 and	3.00
" Extensa globosa, 6 to 12 in. across 25 & 50c. ea.	
Achyranthus, assorted	3.00
Coleus, assorted $2.00 and	3.00
Hibiscus, assorted	4.00
" Schizopetalus	6.00
Anthericum picturatum per dozen, 75c.	

ROBT. S. BROWN & SONS,
Box 99. KANSAS CITY, MO.
Mention American Florist.

Asparagus plumosus nanus.

$15.00 per 100.

Strong plants from 4-inch pots. Cash with order.

ALEX. SCOTT,
Balto. Co., Lauraville, Md.

DOES IT PAY?

to wait till the last moment.

NO! Then order your

Bouquet Green, Cut Ferns, Sphagnum Moss, Xmas Trees, Holly, Festooning, and Xmas Green of all kinds. ▲ ▲ ▲ ▲

And do it early. Write for prices—low as the lowest. A 1 goods, and the only place in the WORLD where you can ALWAYS get them.

H. E. HARTFORD, 18 Chapman Place, BOSTON.

EVERGREEN CUT FERNS



FANCY. DAGGER.

ESPECIALLY FOR FLORISTS' USE.

$1.25 PER THOUSAND FERNS.

IN LOTS OF 5000 AND UPWARDS, $1.00 PER 1000. Ferns furnished the year round. Special attention given to supplying the Wholesale Trade.

L. B. BRAGUE, Hinsdale, Mass.

100,000 VERBENAS.

THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.

NO RUST OR MILDEW.

Packed light, and satisfaction guaranteed. Send for circular. . . .

We are the largest growers of Verbenas in the country. Our sales reaching last year 215,500. Our plants this year fully equal, if not surpass, any we have ever grown.

J. L. DILLON, Bloomsburg, Pa.

Wild Smilax, Pines and Palmettos

FOR DECORATIONS
AT LOW FIGURES.

Low freight rates by steamer to New York, Boston, Philadelphia and Baltimore.

A. C. OELSCHIG,
SAVANNAH, GA.

Galax Leaves.

You cannot afford to be without them if you sell Cut Flowers and Decorate. Especially for Christmas. Big money in them. I sold 300,000 in 3 months last winter. $2.00 per 1000 by express. Sample 100 sent by mail on receipt of 50c.

LINCOLN I. NEFF, Florist,
4010 Butler St., PITTSBURG, PA.
AGENT FOR HARLAN P. KELSEY.

CLEMATIS.

I have choice lot of nice, well rooted, one year plants, very suitable for potting now; these will make fine strong plants by sales time, grown in cold house and treated same as H. P. and other roses, in variety, Jackmanni, Duchess Edinburg, Henryii, C. Lovelace, Fairy Queen, Lady Neville, Gem, P. Alexandra and others, $1.50 per doz.; $12 per 100. Two year in var. $3 per doz.; $20 per 100.

F. A. BALLER, Bloomington, Ill.

HEADQUARTERS for WATER LILIES

SEED, TUBERS AND PLANTS.

Embracing all the newest and choicest in cultivation. Awarded SIX MEDALS at World's Fair—the highest number of awards for aquatics.

Illustrated descriptive Catalogue free on application.

Wm. TRICKER, DONGAN HILLS, New York.

For Mildew on Roses

and CARNATION RUST,

USE FOSTITE.

Book on Fostite sent free.

Address C. H. JOOSTEN,
3 Coenties Slip, NEW YORK.

New Yellow Coleus.

The Golden Crown is a perfect beauty,
On the lawn will do its duty;
Its color, style, and growth are fine,
'Twill make the landscape fairly shine.

Fine stock now ready, $3.00 per dozen; (Golden Bedder we don't want you).

The Verbena of yore was a modest wee styme,
Scarcely as large as a silver dime,
Until Henderson, the great floral arter,
Produced them as large as a silver quarter.
Still we're progressing, florists may laugh,
Gibson shows them as large as a silver half.

P. S.—We have a fair stock of the progressive seed and will gladly supply it to all who may need.

500 seeds 50 cts.; ⅛ oz. $1.00. 500 seeds 35 cts.; ⅛ oz. 60 cts. Post free.

Gibson's Pansies need no praisers,
They're such beautiful, scented blazers,
500 seeds 30 cts.; ⅛ oz. $1.00; nice stocky plants 50 cts. per 100; $4.00 per 1000.

Dreer is the Petunia king,
His elegant strains are just the thing.

Double hand hybridized, per 500 seeds 75 cts.; 1000 seeds $1.25. Plants and rooted cuttings, flats.

Field-grown gold and silver variegated Vincas $5.00 per 100. Snow Crest Daisies, nice young plants, flats, $5.00 per 100. Cash with order please.

Address J. C. GIBSON, Woodbury, N. J.

ROSES.

	Per 100	Per 1000
1560 Perle, 3-inch	$ 5.00	$40.00
1000 " 2½-inch	3.00	25.00
600 Bride, 2½-inch	3.00	25.00
1200 Mermet, 2-2½-inch	3.00	25.00
200 Hoste, 2½-inch	3.00	

BROWN & CANFIELD, Springfield, Ill.

Forcing Roses.

A stock of the best varieties always on hand.

M. A. HUNT, Terre Haute, Ind.

ROSES.

SOUVENIR DE LA MALMAISON

Own root plants, out door grown, $15 per 100.

ULRICH BRUNNER, own root plants, out door grown, $15 per 100. Budded on Manetti stock, $15 per 100.

EDWIN LONSDALE, Chestnut Hill, Phila.

EXTRA CHOICE FLOWER SEEDS.

List free on application.

FRED. ROEMER, SEED GROWER,
QUEDLINBURG, GERMANY.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

OBITUARY.

MR. E. S. DODWELL.

Carnation growers all over the world will hear with sincere sorrow of the death of Mr. E. S. Dodwell, the distinguished English carnation grower, whose book on "The Carnation and Picotee" is justly regarded as a classic in its line.

Mr. Dodwell was born at Long Crendon, Buckinghamshire, in 1819, and had just completed his 74th year. He was engaged in business in London, but lived at his birthplace until 1845, when he went to Derby. While at Derby he became an enthusiast in carnation culture, becoming a successful exhibitor and hybridizer. He cross-fertilized very systematically, raising some remarkable forms. From Derby he went to Clapham (London) in 1860, continuing his work and becoming well known in connection with carnation societies as well as contributing freely to carnation literature.

From London Mr. Dodwell went to Oxford in 1881. For the last nine years an annual carnation show has been held in Mr. Dodwell's garden, which was very largely attended. Like all English growers he paid great attention to carnations as outdoor bedding plants, and his garden at Oxford was a brilliant show. He also grew some 3,000 plants in pots. His carnation garden is described as unsurpassed, and nothing could exceed his interest in all this class of plants. Last year English carnationists united in presenting a handsome testimonial to Mr. and Mrs. Dodwell, on the occasion, if we recollect aright, of their golden wedding.

Mr. Dodwell leaves a widow and several sons and daughters. He was buried at Oxford December 5.

Cut Smilax

Largest and most reliable stock in America.

Satisfactory prices on application.

THE NATIONAL PLANT CO.,
Dayton, Ohio.

DAN'L B. LONG,
COMMISSION • FLORIST,
495 Washington St., BUFFALO, N. Y.
FORCING BULBS, FLORISTS' SUPPLIES, LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application.

SPECIAL NOTICE.

If you are short of
Roses, Carnations, Romans, Valley, Orchids, Smilax, Asparagus,
or any flowers in the market, Telegraph or Telephone your orders to us, and have them properly filled with choice flowers, and properly packed and shipped on time.

NOT RESPONSIBLE FOR PACKAGES AFTER DELIVERED TO EXPRESS CO.

CORBREY & McKELLAR,
Phone Main 4508. 45 Lake Street, CHICAGO.

VALLEY. Plenty of it.
ROMAN HYACINTHS always on hand.
LIL. HARRISII, finest in the market.
ROSES. Best to be had.

BOOK ORDERS NOW FOR NEW YEAR'S.

Galax Leaves. We are Western Agents for one of the largest dealers in North Carolina, and can have them in our store within 48 hours after they are picked. Write us for estimate on large lot.

Shipping orders promptly attended to.

J. B. DEAMUD & CO., 45 Lake St., CHICAGO.

The Holidays.

For Choice Decorations nothing can equal ASPARAGUS PLUMOSUS NANUS.
No advance in price. CUT STRINGS, 8 to 12 feet long, 50 cts.
Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.
W. H. ELLIOTT, Brighton, Mass.

CUT FLOWERS.

ROSES, standard varieties and novelties
Carnations, all the new sorts in finest quality.

VIOLETS, MIGNONETTE AND VALLEY.

FIRST QUALITY STOCK.
WHOLESALE ONLY.

THOS. YOUNG, JR.,
20 WEST 24TH ST., NEW YORK.

W. ELLISON,
WHOLESALE
Cut Flowers AND Florists' Supplies
1402 PINE STREET,
St. Louis, Mo.

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
WHOLESALE
FLORIST,
1122 PINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

Wholesale Florists
The LaRoche & Stahl Flower Co. Limited.
N. E. CORNER
13th & Chestnut Sts.
PHILADELPHIA.
Mention American Florist

SAMUEL S. PENNOCK,
Wholesale Florist
REAR OF 42 S. 16th STREET,
Philadelphia, Pa.

H. L. SUNDERBRUCH,
Wholesale Florist
4TH AND WALNUT STREETS,
Cincinnati, O.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO.

New Year's Prices.	Per 100
Perles, Niphetos, Gontier	$ 5.00@$ 6.00
Bride, Mermet, La France	6.00@ 8.00
Meteor	10.00
Carnations, long, white	2.00
" " colored	2.00@ 3.00
" fancy	3.00@ 4.00
" short	1.00
Violets	2.00
Callas, Harrisil	15.00
Romans, Paper White	2.00@ 3.00
Valley	5.00@ 6.00
Smilax	15.00
Adiantum	1.00
Ferns, common per 1000 $2.50.	.30
Chrysanthemums, common	2.00@ 4.00
Cycas leaves, preserved .75 cts. each	

Western Agent for the GREAT ANTIPEST.

FLINT KENNICOTT, President. FRED. W. H. SUNDMACHER, Sec'y and Treas.

Kennicott Bros. Co.
34 & 36 RANDOLPH STREET,
CHICAGO.
WHOLESALE CUT FLOWERS,
and FLORISTS' SUPPLIES.
WIRE WORK A SPECIALTY.

General Agents for Chicago and the Northwest of Kelsey's Beautiful New Southern Galax Leaves, $2.00 per 1000; 25 cents per 100.

A. L. RANDALL,
Wholesale Florist,
126 Dearborn St., CHICAGO.

Agent for finest grades Waxed and Tissue Papers.

REINBERG BROS.
WHOLESALE GROWERS OF
CUT FLOWERS
Roses, Carnations and Violets Specialties.
51 WABASH AVENUE,
Telephone 4937. CHICAGO.

WHOLESALE FLORISTS,
JOBBERS IN FLORISTS' SUPPLIES,
METS, BRIDES, GONTIERS, CARNATIONS, ALWAYS ON HAND. FLORISTS' VASES.
1 Music Hall Place,
BOSTON, MASS.
HORTICULTURAL AUCTIONEERS. . .

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St., BOSTON, MASS.

CUT SMILAX,
15 cts. per string till November 1st. Quality first-class. Special attention to orders by wire.
E. BONSALL & SON, 308 Garfield Ave., Salem, O.

Mention the American Florist when writing to advertisers on this page.

Wholesale Markets.

Cut Flowers.

	NEW YORK, Dec. 24.
Roses, Gontier	6.00@10.00
" Perle, Hoste, Niphetos	4.00@ 6.00
" Mermet, Bride	4.00@12.00
" Cusin, Watteville	4.00@10.00
" Meteor	20.00@25.00
" Testout	15.00@20.00
" Beauty	50.00@100.00
Carnations, common	1.00@ 2.00
" fancy	2.00@ 3.00
Mignonette	5.00@12.00
Violets	1.00@ 2.25
Valley	2.00@ 4.00
Hyacinths, narcissus	1.00@ 2.00
Cypripedlums	12.50
Harrisli	10.00@15.00
Smilax	5.00@10.00
Adiantum	1.00
Asparagus	50.00
	BOSTON, Dec. 24.
Roses, Niphetos	2.00@ 4.00
" Perle, Gontier	4.00@ 6.00
" Bride, Mermet	6.00@10.00
" Meteor	10.00@25.00
" American Beauty	25.00@100.00
Carnations, common	1.00@ 2.00
" fancy	2.00@ 3.00
Chrysanthemums	8.00@12.00
Violets	1.00@ 1.75
Lily of the valley	4 00@ 6.00
Hyacinths, narcissus	2.00
Harrisil, callas	20.00@25.00
Smilax	12.00
Adiantum	1.00
Asparagus	50.00
	CHICAGO, Dec. 27.
	NEW YEAR'S PRICES.
Roses, Meteors	10.00
" Bride, Mermet, La France	6.00@ 8.00
" Perle, Niphetos, Gontier	5.00@ 6.00
Carnations, long white	2.00
" " colored	2.00@ 3.00
" " fancy	3.00@ 4.00
" short	1.00
Violets	2.00
Harrisil, Callas	15.00
Romans, Narcissus	2.00@ 3.00
Valley	5.00@ 6.00
Chrysanthemums, common	2.00@ 4.00
" fancy	8.00@12.00
Marguerites	1.00
Smilax	15.00
Adiantum	1.00
Common ferns $2.50 per M	.25
Galax leaves $2 per M	.25
Asparagus	75.00
	CINCINNATI, Dec. 26.
	NEW YEAR'S PRICES.
Roses, Beauty	50.00@75.00
" Mermet, Bride, La France	8.00@10.00
" Perle, Niphetos	5 00@ 7.00
Carnations, fancy	3 00@ 4.00
Callas, Harrisil	12.50@15.00
Violets	2.00
Trumpet major narcissus	3.00@ 4.00
Valley	5 00@ 6.00
Narcissus, Romans	2.00@ 3.00
Asparagus	50.00@75.00
Smilax	12.50@15.00
Adiantum	1.00@ 1.25
	BUFFALO, Dec. 26.
Roses, Beauties	25.00@75.00
" Mermet, Bride	12.00@15.00
" Bridesmaid	12.00@15.00
" Perle, Hoste, Cusin	8.00@12.00
" Meteor	15.00@25.00
" La France	12.00@15.00
" Gontier, Niphetos	8.00@10.00
Valley	5.00@ 6.00
Violets	2.50@ 3.00
Hyacinths, narcissus	4.00
Carnations, long	2.50@ 3.00
" Daybreak	5.00
" short	1.50
Smilax	15.00
Adiantum	1.00@ 1.25
Asparagus	50.00

GEORGE A. SUTHERLAND,
SUCCESSOR TO
PECK & SUTHERLAND,
Successors to WM. J. STEWART.
CUT FLOWERS
and Florists' Supplies.
WHOLESALE.
67 Bromfield St., BOSTON, MASS.

Send for a Copy OF OUR
TRADE DIRECTORY
AND REFERENCE BOOK.
PRICE $2.00.
AMERICAN FLORIST CO.,
P. O. Drawer 164. CHICAGO, ILL.

BURNS & RAYNOR,
29 West 28th Street,
NEW YORK,
Wholesale Dealers in and Shippers of
Choice Flowers
OUR SPECIALTIES:
AMERICAN BEAUTIES, METEORS, BRIDESMAIDS.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST,
32 West 30th Street, NEW YORK.
Roses Shipped to all points. Price list on application.

VIOLETS.
The largest stock in the country, from the best growers. If you want first-class Violets for the Holidays, send to
JOHN YOUNG,
53 West 30th Street, NEW YORK.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS,
51 W. 30th St., NEW YORK.

JAMES HART,
WHOLESALE FLORIST,
117 W. 30TH ST., NEW YORK.
The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHRS,
WHOLESALE
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.
Established 1879.

MILLANG BROS.,
Wholesale Florists,
17 WEST 28TH STREET,
NEW YORK.
BRANCH: Cut Flower Exchange, 408 E. 34th Street.

MICHAEL A. HART,
Wholesale AND Commission Florist
113 WEST 30TH STREET,
. . . . NEW YORK.
THE FINEST ROSES AND CARNATIONS.
Branch, at Cut Flower Exchange, 408 E. 34th St.

Edward C. Horan,
34 W. 29th Street, NEW YORK,
WHOLESALE FLORIST.
Careful Shipping to all parts of the country
Price list on application.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and treasurer, 116 Chambers street, New York. Next annual meeting second Tuesday in June, (will probably be held in Toronto.)

THE NEW TARIFF seems a little difficult to interpret horticulturally, but those who have studied it most incline to the belief that garden seeds are intended to be free, other seeds 10%, while flower seeds, plants and bulbs are difficult to locate. Trouble is anticipated in liquidating the entries.

NASHUA, N. H.—A. H. Dunlap & Sons, seedsmen, have received word from Philadelphia that a swindler under the name of A. H. Dunlap, Jr., was collecting bills in that section and New York in their name. How extensively they have been swindled is not known.

THE UNIVERSITY OF MINNESOTA EXPERIMENT STATION, through W. M. Hays, its agriculturist, is out with a circular suggesting that the U. S. Department of Agriculture at Washington supply the various State Experiment Stations with seeds for free distribution to the farmers of the different states, and not only that, but suggests that franks be supplied to mail such seeds free from the state stations. This is certainly in the line of doing away with the mail seed trade with a vengeance.

FREMONT, WASH.—The Woodland Park Floral Co. has added a fine palm house; it is octagon in shape, having a central dome 30 feet high. They have also opened a retail store in Seattle.

BROCTON, N. Y.—At the annual meeting of the Chautauqua Horticultural Society Irving A. Wilcox, of Portland, was elected president. The offices of secretary and treasurer were combined and S. S. Crissey, of Fredonia, was elected. The next meeting will be held in Fredonia.

Hulsebosch Brothers,
OVERVEEN, HAARLEM, HOLLAND.

	Per 100	Per 1000
LIL. HARRISII, 7—9	$3.00	$25.00
" CANDIDUM	2.00	15.00
WHITE ROMAN HYAC., 11—15	1.75	15.00
ITALIAN, blush white Hyac., 12—17	1.75	15.00
NARCISSUS CAMPERNELLE	.60	4.50
SINGLE BEGONIAS, fine bulbs, new crop, finest strain, in 4 separate colors	4.50	35.00
CONVALLARIA MAJALIS, German pips	1.00	8.00
TUBEROSES, Pearl and Tall, Al.	.90	7.50

Low budded Roses, hardy Azaleas, Rhododendrons, Clematis, etc., etc., can be ordered at any time for March, '94 delivery.

HULSEBOSCH BROS.,
58 West Street, NEW YORK CITY.

Tuberose Bulbs.
Dwarf Pearl and Tall Double.
Extra select, sound stock, $1.25 per 100; $9.00 per 1000.
W. W. BARNARD & CO.
6 & 8 N. Clark Street, CHICAGO.



TRY DREER'S GARDEN SEEDS,
Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
HENRY A. DREER,
Philadelphia, Pa.

Oscar Knopff & Co.,
SEED GROWERS, ERFURT, GERMANY,
Flower, Kitchen Garden, Etc. Seeds.
LILY OF THE VALLEY BULBS.
Best qualities at low prices. Orders promptly executed.
MEDAL AWARDED AT WORLD'S COLUMBIAN EXPOSITION
Sole Agents for United States and Canada:
C. B. RICHARD & CO., 61 Broadway, NEW YORK.
☞ Trade Catalogue for 1894 free on application.

ELECTROTYPES of VEGETABLES, FLOWERS, ETC.
VILMORIN, ANDRIEUX & CO., Seed Growers, Paris.
Apply for Catalogues. NOVELTY SHEET NOW READY.

Complete Stock in New York
—WITH—
THEO. PABST & CO., 26 Barclay Street.

150,000 PEARL TUBEROSES
Orders booked now for selected bulbs (4 to 6 inches in circumference) of above at $8.00 per 1000; $7.50 per 1000 in 5,000 lots.

SPIRÆA JAPONICA, - $3.75 per 100
GARDINER'S XX BERLIN LILY OF THE VALLEY PIPS, $20 per case of 2,500

English Mushroom Spawn.
Our fourth importation this season of above just received in splendid condition, $7.00 per 100 lbs.
JOHN GARDINER & CO.,
21 North 13th Street,
PHILADELPHIA, PA.

SEND for Catalogue of

JAPAN BULBS, SEEDS and SHRUBS, ARAUCARIAS, TREE FERNS, AUSTRALIAN PALM SEEDS, CALIFORIA BULBS and SEEDS to
H. H. BERGER & CO.,
Established 1878. SAN FRANCISCO, CAL.

Z. De Forest Ely & Co.
WHOLESALE SEEDSMEN,
Growers AND Importers of Bulbs.
JOBBERS IN
FLORISTS' SUPPLIES.
1024 Market Street, PHILADELPHIA, PA.
Price lists to dealers on application.

WE SELL MUSHROOM SPAWN,
LILIUM HARRISII AND DUTCH BULBS.
Special Low Prices to Florists & Dealers.
WEBBER & DON,
Seed Merchants and Growers,
114 Chambers Street, NEW YORK.

FIFTY THOUSAND
PEARL TUBEROSES
F. O. B. NEW YORK.
We offer selected bulbs of above, from four to six inches in circumference, for shipment early in December, at $9.00 per 1000. Orders accepted subject to being unsold.

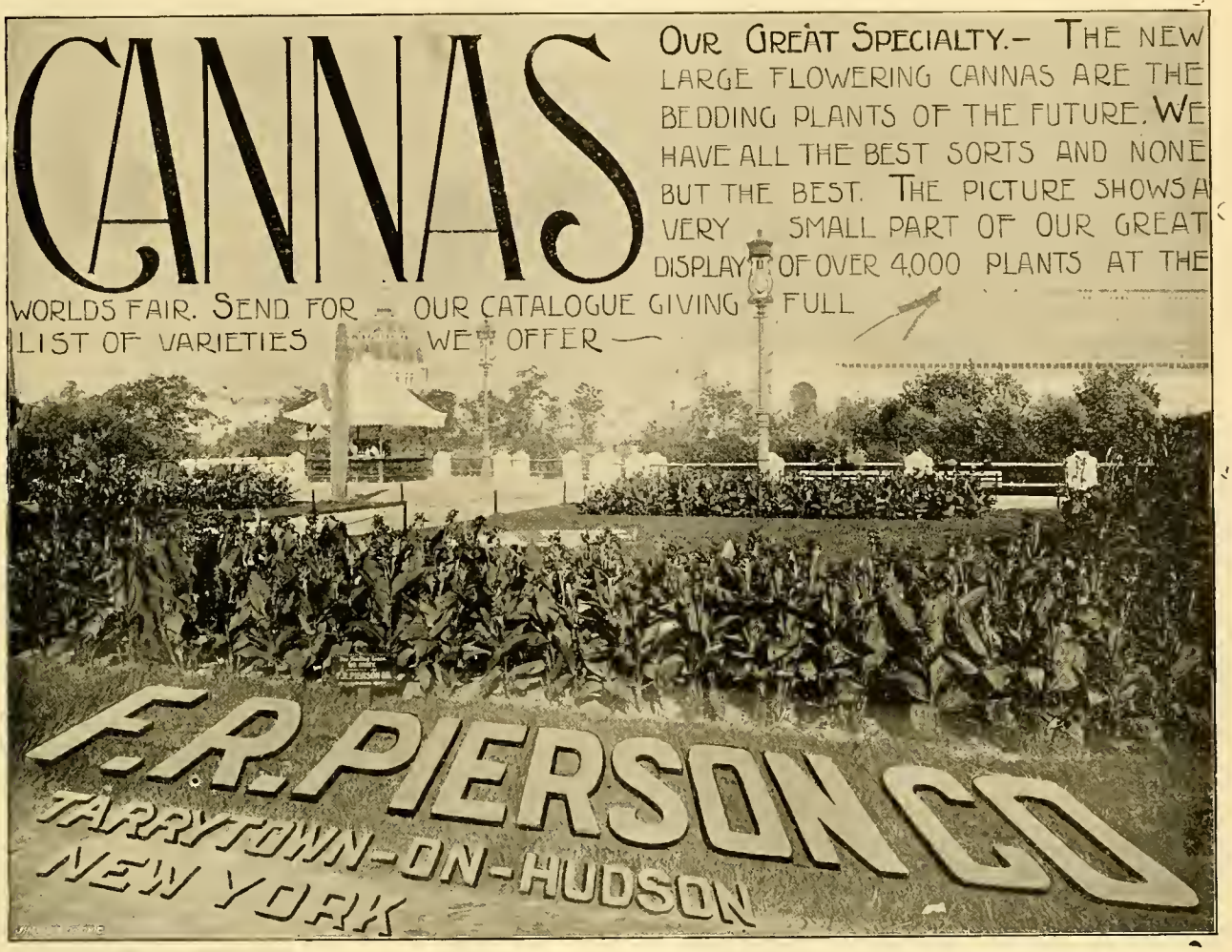
SWEET PEAS, California grown.
We are headquarters for California grown Sweet Peas, and parties desiring to contract for their requirements for season of 1894, will do well to write for prices.
SUNSET SEED & PLANT CO.
(SHERWOOD HALL NURSERY CO.)
427-9 Sansome St., *San Francisco, Cal.*



Write for Wholesale List.
MICHEL PLANT AND BULB CO.,
ST. LOUIS, MO.

G. J. MOFFATT,
Manufacturer of
PAPER BAGS AND ENVELOPES
Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN, CONN.

THE GREAT **ANTIPEST.**
For particulars, see next week.
R. W. CARMAN, GEN'L AGT.,
291 Amity Street, FLUSHING, Queens Co., N. Y.



Siebrecht & Wadley,

ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.

Palms,
ORCHIDS,
Roses,
and New Plants.

FRESH DRACAENA CANES NOW READY.

ORCHIDS.

The Finest Stock in the World.

SANDER'S,
ST. ALBANS,
ENGLAND.

Thirty minutes from London.

Our Mr. A Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

WHY NOT TRY

A FEW ORCHIDS?

They are Very Cheap. They are Easily Grown. They Sell Well.

They always attract attention in store or greenhouse.

BRACKENRIDGE & CO.,
304 W. Madison St., BALTIMORE, MD.

Please mention the American Florist every time you write any of the advertisers on this page.

Swainsona

GALEGIFOLIA ALBA.

The beautiful pea-like blossoms of this free blooming plant are produced in racemes three to five inches long.

IT IS ESPECIALLY VALUABLE TO THE FLORIST WHO GROWS AND RETAILS HIS OWN FLOWERS.

A few extra strong plants in bud and bloom, $4.00 per dozen.

Plants well established in thumb pots, $10 per 100.

EDWIN LONSDALE,

Money Order office, Station "H", Phila. | WYNDMOOR, nr. Chestnut Hill, PHILADELPHIA, PA.

Mention American Florist.

FRESH IMPORTED ORCHIDS,

Cattleya Gaskelliana,

5—7 Bulbs, $.75 each.
7—12 Bulbs, 1.25 each.
Larger plants, $2.00 to $5.00 each.

I. FORSTERMAN,
Newtown, N. Y.

CYCLAMEN GIGANTEUM from best seed, strong plants, showing bloom, in 4 and 5-inch pots, $8, $10, $20, $30 and $50 per 100. Dozen at same rates. Assorted colors.

PRIMULA CHINENSIS, in variety of foliage and color, 4-inch pots, $8, $10 and $12 per 100. Dozen at same rates.

Promptly shipped at "FLORISTS" Express rates.

A. S. MacBEAN, Lakewood, N. J.

FLORAL DESIGNS

The Cut Flower Worker's Friend. Fine book of 160 pages. Send $3.50 for it, to

J. HORACE McFARLAND, Harrisburg, Pa.

CHOICE SEEDS.

PETUNIA FIM. FL. PL.

The largest and finest strain of double fringed and mottled Petunias to be had. All who see these Petunias say they are the finest they ever saw. Selected specially for florists. Extra.

VERBENA GRAND.

This fine strain of Mammoth Verbenas gives perfect satisfaction to my many customers and is justly claimed to be the finest in cultivation. Florets an inch in diameter, in immense umbels, of the finest colors. Florists, be sure to sow of it.

CYCLAMEN GIANT.

A magnificent collection of the finest Giant Flowering varieties; largest flowers and best colors.

Per liberal Trade Packet of each of the above, 25 cts 3 pkts. 60 cts.; 6 pkts. $1.00.

JOHN F. RUPP, Shiremanstown, Pa.

BARGAINS,

in these plants, to move quickly. I need the room.

		Per 100
Geraniums, best bedders, strong, 2-inch		$ 2.00
"	Bronze, strong, 2-inch	3.00
"	Mme Sallerol, strong, 2-inch	1.50
Coleus, from 2-inch pots, fine.	$12.50 per 1000,	1.50
Petunia, double, best sorts, strong, 2-inch		2.50
Primroses, single, best strain, strong, 3-inch		5 00
Heliotropes, strong, 2-inch		2.00
1500 Carnations, Portia, extra nice field grown		5.00
1000 "	Fred Dorner, extra nice field grown	5.00
200 "	Garfield, medium size, but good	5.00
200 "	Tidal Wave. " "	4.00

Farleyense Ferns, vigorous plants, 3-inch, 25c. each.
Chrysanthemums, stock plants, best sorts, 10 for $1.00
Rooted Cuttings Coleus, splendid asst., 50c. per 100.
" " Geranium Mme. Sallerol, $1.00 per 100.
" " Verbenas, fine kinds, labeled, 75c. "

N. S. GRIFFITH, Independence, Mo.

Independence is well located for shipping, being 8 miles East of Kansas City, Mo.

VERBENAS, MAMMOTH PLANTS in perfect health, $2.00 per 100. ROOTED CUTTINGS, $6.00 per 1000. Finer I never saw. Warranted; delivered free for December only.

W. B. WOOODRUFF, Florist, Westfield, N. J.

Always mention the American Florist when writing to advertisers.

Baltimore.

"Christmas joys be thine" usually means a good deal for the florist here, but up to Saturday the prospect was quite discouraging and opinions were freely expressed of a very pessimistic character. Christmas day though was a very decided improvement and almost made amends for a dull week, pretty much everything in town being bought up at good prices. Romans and smilax were as usual plentiful, but perhaps the greatest surprise in the way of supplies was in violets; they have been very scarce and were regarded as a very uncertain thing to get, even at $2 a hundred up to Saturday morning, when they were scarce at that price, but before night the price had fallen to $1 and no takers.

Following is a brief report from several firms: Florists' Exchange — "Business very good, picked up on Christmas wonderfully, violets, Romans and smilax very plentiful, good buds rather scarce"; Mr. R. J. Halliday is not sufficiently recovered to be at his store, but his saleslady, Miss Stout, reported business not up to last year; Mr. John Halliday of Halliday Bros.—"Not able to say exactly, but I think the sales have been just about as usual"; Mr. Wm. Feast of Sam'l Feast & Sons—"We have had as much trade as we could handle, small plants went well, the only difference between this and last year was in cash sales, less being sold that way than in regular orders, Christmas by far the best day."

These are but a few, but they show the drift of the trade and indicate pretty accurately the state of the market. People showed an astonishingly economical turn in buying, particularly early in the week, and only bought freely when all cheap stuff had been used. Violets were no go at $4 and exceedingly slow at $3, the prices asked at first. By Monday Christmas cheer had begun to have its effect and people buying did not criticise prices so closely if suited in other ways. The markets did very well, Immortelles, holly and wreathing sold freely in immense quantities at usual rates.

MACK.

GERANIUMS.

At least 40,000 in flats, at $15.00 per 1000
At least 20,000 in 2½-inch pots . . . 20.00 per 1000
A few thousand Coleus in 2½-inch pots. 20.00 per 1000
A few thousand Double White Petunias, 2½-inch pots, at . . . 2.50 per 100
Ageratum, blue and white . . . 2.00 per 100
At these prices the selection of sorts to remain with us.

The above are in fine condition.
Cash with the order.

J. E. FELTHOUSEN,
370 Van Vranken Avenue, SCHENECTADY, N. Y.

PALMS.

150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

Address **GEORGE WITTBOLD,**
1708 N. Halsted St., CHICAGO.

CYCLAMEN persicum giganteum, 5-inch pots $10.00 per 100
GENISTAS, 2½-inch pots, strong plants, $6.00 per 100.
CARNATIONS, Dorner's Seedlings, $15 per 100 McGowan, Puritan, Wilder, and others, $8.00 per 100. Second size $6.00 per 100
Correspondence solicited.

Address **J. G. Burrow,**
FISHKILL, N. Y.

CARNATIONS.

Fourteen houses planted to carnations, all of which are under my own special care and supervision, so that I can guarantee all the cuttings sent out as first-class.

The varieties I grow are Daybreak, Lizzie McGowan, Silver Spray, Grace Darling, Aurora, Portia, Edna Craig, Fred. Dorner, J. R. Freeman, Golden Triumph, Annie Pixley.

Not a big list but a mighty good list. Come and see them grow, or write to me for prices, stating how many you will want of each variety and when they are to be delivered. I think we can make a deal that will be satisfactory to us both.

L. B. 496. **ALBERT M. HERR, LANCASTER, PA.**

ANNIE PIXLEY.

From a commercial point of view right now at Christmas I can say for this carnation that it is the finest I ever grew. With only ordinary culture I can cut stems twenty inches long, the flowers are large, the calyx has never burst, the plants are more than ordinarily strong and healthy and the color is just right, one of those pleasing shades of light pink that people can't help but buy.

Awful strong claims to make but if you will try it you will have to acknowledge they are none too strong.

Orders will be filled in rotation beginning now, at **$12 00 per 100; $100.00 per 1000.** 25 at 100 rates; 250 at 1000 rates. As next year is another year, I do not intend to ruin my stock by over propagation to fill orders. Be wise.

Terms cash before shipping, or C. O. D.

COME AND SEE THE NEW AND BEAUTIFUL FANCY CARNATION "HELEN KELLER"

GROWING AND BLOOMING.

It is Healthy and Productive. In form, size, and elegance nothing in sight can approach it. It is the greatest novelty among Carnations up to date.

Listen to what Mr. Robert Craig says about it:

"I am charmed with Helen Keller Carnation; it is very distinct and fascinating—will undoubtedly be very popular."

Two houses filled with this sterling new variety are worth going many miles to see: One at Summit, N. J.; the other at Wyndmoor near Chestnut Hill, Phila., where inspection is invited.

Flowers only for sale at present, $1.00 per dozen; $6.00 per 100.

EDWIN LONSDALE, CHESTNUT HILL, PHILA.
JOHN N. MAY, SUMMIT, N. J.

Rooted Cuttings. CARNATIONS. Rooted Cuttings.

ALL THE BEST VARIETIES IN CULTIVATION.
FINE STOCKS OF DAYBREAK, EDNA CRAIG AND CARTLEDGE.
NO DISEASE! NO RUST!
Catalogues ready January 1st, '94. Correspondence solicited.

Address **H. E. CHITTY, Paterson, N. J.**

Rooted Cuttings

COLEUS, 10 sorts, 60c. per 100
BY MAIL.

SAMPLE DOZEN, without names, mailed for 10 cts.

S. O. STREBY,
Lock Box 77,
UPPER SANDUSKY, OHIO.

HYDRANGEA,

THOMAS HOGG,

3 and 4-inch pots, $4.00 and $6.00 per 100.

BRAUER & RICHTER,
McCONNELSVILLE, OHIO.

200,000 Pansies.

The Jennings strain of large flowering and fancy pansies may still be had in any quantity wanted. Plants are field grown, and are fine and stocky. Finest mixed, by Express, $5.00 per 1000; 5000 $20.00; 10,000 $35.00. Small plants by mail, 60c. per 100.

Seed, pure white, yellow or mixed, $1.00 per trade pkt. of 2,500 seeds. The leading strain. The largest sales. Always satisfactory.

ADDRESS **E. B. JENNINGS,**
WHOLESALE PANSY GROWER,
Lock box 254. SOUTHPORT, CONN.

VERBENAS, stock plants $2.50 per 100
HYDRANGEAS, Easter forcing stock,
4½-inch pots 10.00 per 100
" strong 25 to 35 cts.
CYCLAMENS 6 to 10 cts.
REX BEGONIAS, 3-inch 6 cts.
SWORD FERNS, 3-inch 8 cts.
GREVILLEA ROBUSTA, fine plants, 15 cts.
McCREA & COLE, BATTLE CREEK, MICH.

SWEETBRIER

Received 1st Premium for "best seedling of any color" at Phila., Nov. 7, '93. Color between Daybreak and Wilder.

Flowers brought $5.00 per 100 wholesale, at J. R. Freeman's, Washington, last winter.

"I like its color better than Daybreak."
EDWIN LONSDALE,

"Sweetbrier is all that can be desired."
W. A. MANDA.

Rooted cuttings, $10.00 per 100; $80.00 per 1000. Delivery to begin February 1, '94.

VIOLET LADY CAMPBELL.

ROOTED RUNNERS, $3.00 per 100; $25.00 per 1000.
Send for price list.

EDW. SWAYNE,
KENNETT SQUARE, PA.

50,000 ROOTED CUTTINGS OF THE

Daybreak Carnation

will be ready for delivery by January 10th. Orders booked now. Satisfaction guaranteed.
Price, $2.00 per 100; $15.00 per 1000.
Terms strictly cash. Address

FRED SCHNEIDER, Wholesale Florist,
ATTICA, Wyoming Co., N. Y.

Carnations.

Field plants all sold.

Orders solicited for early delivery of **ROOTED CUTTINGS** in varieties suitable for summer blooming.

C. J. PENNOCK,
The Pines. KENNETT SQUARE, Chester Co., PA.

CARNATIONS.

All the new and leading varieties. Send for prices on what you want.

GEO. HANCOCK, Grand Haven, Mich.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

Chrysanthemums.

STOCK PLANTS.

15 Cents Each.

Bride of Roses	L. Canning	Mr. H. Cannell
Bohemia	Lord Eversley	Pres. Hyde
E. G. Hill	Louis Boehmer	Potter Palmer
Emily Dorner	Molly Bawn	Violet Rose
Fred. Dorner	Mrs. A. Hardy	Waban
Geo. Savage	Mrs. G. W. Bullock	Yosemite
H. E. Widener	Mabel Douglas	John Lane

Mrs. I. W. Forsterman.

20 Cents Each.

Cullingfordii	Harry May	Mrs. K. Brown
Eda Prass	Ivory	Pat. Barry
Ernst Asmus	L. B. Bird	Roslyn
E. Ladenburg	Mrs. Whilldin	Sunflower
Geo. Daniels	Mrs. J. Clark	T. C. Price
Grandiflora	M. Wanamaker	Vivland-Morel
Gertie	Mermaid	J. C. Vaughan

Temple of Solomon.

35 Cents Each.

Golden Wedding	Dr. Mandeville	Mrs. H. Graves
Sun God	Mrs. W. Cutting	Mrs. A. Mantee
Good Gracious	Imperial Favorite	E. Hitzeroth
E. W. Hutch	Mrs. Bayard Cutting.	

Cash to accompany all orders.

A. H. SEAVER,

49th Street and 1st Avenue,

SOUTH BROOKLYN, N. Y.

Chrysanthemums.

STOCK PLANTS, 15 Cts. EACH.

Ivory,	Mabel Glenn,
Mrs. J. G. Whilldin,	Mrs. Hicks Arnold,
Beacon,	Mrs. Georgie Coles,
Geo. W. Childs,	Patrick Barry,
A. Ladenburg,	Elaine,
Golden Gate,	King's Daughter,
E. G. Hill,	Dr. H. D. Hull,
L. Canning,	Mrs. Gov. Flfer.
Autumn Glow,	Tuxedo.
J. C. Vaughan,	Mrs. J. D. Elsele,
Mrs. Senator Hearst,	Y. H. Hallock,
Rnssell,	Gloriosum,

Mrs. C. D. Avery.

J. C. VAUGHAN,

NEW YORK. CHICAGO.

CHRYSANTHEMUMS.

STOCK PLANTS.

AT 50c. EACH—The Queen, Golden Wedding, Mrs. Jerome Jones, Niveus, Maud Dean, Joey Hill, Pres. Wm. R. Smith, A. T. Ewing, W. G. Newitt, W. N. Rudd, Jennie Williams, Geo. R. Gause.

AT 25c. EACH, (All good for cutting)—Amber Queen, Armada, Mrs. Harmon Payne, Mme. Edward Rey, Mlle. Therese Rey (fine), Mme. Octave Mirabeau, Mme. Isaacs, Harry Balsley, Joseph H. White, Mrs. J. G. Whilldin, Marguerite Graham, Marguerite Jefforda, Miss Kate Brown, Golden Bale, Waban, Mrs. E. W. Clarke, Miss Lyda Hopkins, Judge Holt, Mrs. Robt. Craig, F. Bergman, Good Gracious.

AT 12½c. EACH—Ivory, Vivland-Morel, Violet Rose, Jessica, Golden Gate, Sweet Lavender, Mlle. Ferher, L. Canning, Cullingfordii, Elise, Kioto.

CHICAGO FLORAL CO.,

38th St. & Grand Boulevard, CHICAGO, ILL.

NEW CHRYSANTHEMUMS.

SPECIALTIES: Including The Queen, Niveus, Mrs. F. L. Ames, Golden Wedding, Judge Holtt, and Good Gracious. Twelve plants for $1.00.

NOVELTIES: Including The World, White Engle, Monarch of Ostrich Plumes, Silver Waves, and Pascha. Fourteen plants for $1.00.

GENERAL LIST: Including many new varieties. Sixteen plants for $1.00.

Now ready for delivery. Send for catalogue.

M. B. LITTLE, GLENS FALLS, N. Y.

Verbenas

SPECIAL OFFER.

	Per 100	Per 1000
Unsurpassed Mammoths, 2¼-inch pots	$3.00	$25.00
" " rooted cuttings,	1.25	10.00
Genera collection, named, "	1.00	8.00
" " " 2¼-inch pots	2.50	20.00
H. P. Roses, dormant, strong	6.00	75.00
Tea " " "	6.00	50.00
Forcing " 3-inch pots, "	6.00	50.00

WOOD BROTHERS,

Fishkill, N. Y.

Cheap! Cheaper! Cheapest!

10,000 GERANIUMS,

from 2¼-inch pots, very short, stocky plants; double and single; all labelled, 500 for $5.00. No order taken for less. February delivery. Cash with order. First in, first served.

JOE. N. LAWRENCE, Ottumwa, Iowa.



WHY do so many Canna Growers say they have a Yellow Canna "As good as Florence Vaughan?"

Robert Craig, Chairman of Committee of Awards in Floriculture at World's Fair, says, Dec. 6, 1893: "Florence Vaughan has proved to be all that was claimed for it; it is still far superior to any Yellow Canna in commerce."

VAUGHAN'S SEED STORE,

New York. CHICAGO.

New Chrysanthemum, MRS. J. GEO. ILS,

A CALIFORNIA SEEDLING.

Flowers sent from San Francisco to the Chicago Show awarded a MEDAL.

A grand white, of remarkable substance, size and depth of flower. See Illustration in AMERICAN FLORIST of November 16th. The very vigorous habit, and our large stock of this novelty, enables us to assure the trade of good plants, and to guarantee safe arrival. To be sent out the 1st of March, 1894, at the following prices to the trade:

75 cents each; $7.50 per 12 plants; $14 per 25 plants; $25 per 50 plants; $40 per 100.

ORDERS BOOKED NOW BY

JOHN H. SIEVERS, 25 Post St., SAN FRANCISCO, CAL.

HOW TO GROW CUT FLOWERS.

A PRACTICAL TREATISE ON

THE CULTIVATION OF THE ROSE,

And Other Flowering Plants for **Cut Flowers,** sent to any address upon receipt of **$2.00.**

M. A. HUNT, Terre Haute, Ind.

COLEUS.

A large stock in 75 varieties, including the very newest kinds.

Rooted Cuttings in 30 to 40 varieties, at $6.50 per 1000 by express.
" " in 20 vars. at $1 00 per 100 by mail.

Golden Bedder (true), at $10 00 per 1000.

Verschaffeltii, Golden Verschaffeltii, Mrs. I. D. Haight, and other yellows, at $8.00 per 1000.

New Kinds including some of the most **handsome** ever offered for sale in 10 vars. at $2 per 100 by mail.

Stock Plants, ordinary kinds, at $3.00 per 100.
" " Verschaffeltii and yellows, at $4.00 per 100.

Cash with Order. Safe delivery guaranteed.

Also a large and fine stock of **CARNATIONS.**

— Send for circular. —

W. R. SHELMIRE, Avondale, Pa.

THE ASSOCIATION FLORA,

BOSKOOP, HOLLAND.

NOW ON HAND IN NEW YORK:

CLEMATIS in sorts, 3 years	per 100	$25.00
SPIRÆA JAPONICA	"	4.00
DIELYTRA SPECTABILIS	"	4.00

Lilium speciosum, Pæonias Rhododendrons, Azaleas H. P. Roses, in best varieties, per 100 $9.00: Abel Carriere, Alfred Colomb, Anna Alexieff, A. de Dieshach, B. Rothschild, Fisher Holmes, Gen. Jack, La France, Mme. G. Luizet, Mme. Plantier, Magna Charta, Paul Neyron, P. C. de Rohan, Perle des Blanches, Ulrich Brunner and others. Catalogue on application.

P. OUWERKERK,

206 Cambridge Ave., JERSEY CITY, N. J.

SWEET PEAS.

STRONG PLANTS OF

BLANCHE FERRY

for forcing, at $1.00 per 100; $8.50 per 1000.

If you are intending to buy some, write me for free sample, and see if they suit you.

FRITZ BAHR, Florist,

ARDSLEY, N. Y.

E. G. HILL & CO.,

Wholesale Florists

RICHMOND, INDIANA.

CINERARIAS.

Strong healthy plants, 2¼-inch..... $2.50 per 100
3-inch..... 4.00 per 100

FUCHSIAS, Rooted Cuttings..... 1.00 per 100

Will exchange for Hydrangeas and Genistas.

S. WHITTON, 11 Roberts St., Utica, N. Y.

St. Louis.

The Christmas trade here was very fair, quite a number of shipping orders having been filled on Saturday, thus shortening the market up considerably. The several unseasonable and very warm days preceding Christmas rushed the stuff along at such a rate that there was about enough to go around (with the exception of colored roses) being cut, and not counting the flowers saved from the earlier part of the week; upon this the warm weather had the most disastrous effect and rendered it absolutely worthless. A person can hardly help pitying a grower, while at the same time having a sort of fellow feeling for him, when he sees the result of the short sighted policy of saving stock for several days and then expecting critical buyers to take it as readily and at the same price as stock that can be held for sale several days. Take the following case: A wholesaler wanted Beauties badly during the earlier part of the week, but wrote in vain for them; Thursday, however, a consignment arrived, but so far open as to be worthless. Or another example: A wholesaler secures Saturday a shipment of about 1200 roses; by the time they are unpacked and sorted he has 200 roses and 1000 stems, and so on indefinitely. But why multiply instances; they seem to have anything but the desired effect upon the persons they are supposed to instruct, so probably the less said about the evil the slower it will spread.

The prices were about what was expected, being about one-half of that of former years. Some fine cypripediums were received from Brown & Canfield which were quoted at from 15 to 25 cents, also a large shipment of carnations from A. M. Herr, which ranged from 3 to 5 cents. Romans and narcissus were in good supply, but not quite as many as in former years.

Perle roses were the scarcest stock in the market, they having been in short supply for a little while back. Meteors also were hard to get, as a limited supply only reaches this market.

The advertised auction sale of the Michel Plant and Bulb Co. took place on Monday, the 18th, and was quite well attended; the plants brought about wholesale prices; the stock chrysanthemums failed to find a bidder, and the bulbs, mostly tulips, were sold very cheap and will be used principally by buyers in planting out, quite a number having been purchased for the city parks. R. F. T.

WHEN SENDING us newspapers containing items you wish us to note please do not fail to distinctly mark the item so it can be easily found, as we can not spare the time to hunt through the mass of papers sent us for unmarked items.

CATALOGUE PRINTING. ELECTROTYPING.

Done with expert ability for Florists, Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.

. . . HARRISBURG, PA.



Kills Mildew and Fungus Growth. What does? **GRAPE DUST.** **Sold by Seedsmen.**

AFTER CHRISTMAS, WHAT?

Plenty of trade if you only carry the right goods.

STOCK UP NOW

— WITH —

BASKETS

for the Winter Trade. We are Manufacturers and carry a large supply, and Novelties are constantly being added. . . .

Don't forget our Special Low Prices on Prime Cape Flowers, Immortelles and Metal Goods.

SEND FOR CATALOGUE.

H. BAYERSDORFER & CO.,

56 N. 4th St.,

PHILADELPHIA, PA.

☞ WHOLESALE ONLY. . . .

Mention American Florist

MARSCHUETZ & CO.,

Florists' Supplies,

23 & 25 N. 4th St., PHILADELPHIA, PA.

Send for Catalogue.

ERNST KAUFMANN & CO.

Florists' Supplies,

113 N. 4TH STREET,

PHILADELPHIA, PA.

HUNTINGTON SEED CO.

Florists' : Supplies,

66 E. WASHINGTON ST.,

INDIANAPOLIS, IND.

Standard Flower Pots, Dried Grasses, Fancy Baskets Metal Designs. Trade Catalogue mailed free.

THE PERFECT DRAINAGE

BENCH TILE

For circulars, etc., address

W. P. Wight, Upland Green Houses,

Send your business card. MADISON, N. J.

Mention American Florist.

HAIL LOCK THE DOOR BEFORE THE HORSE IS STOLEN. *DO IT NOW.*

JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

Supplies of all Kinds, such as Immortelles, Cape Flowers, paper pressed Hartford and Maidenhair Ferns, Wheat Sheaves, Flower Baskets, Pot Holders, Plant Stands, Fern Dishes, etc., etc.; all quoted **in our beautifully and richly illustrated new Trade List** mailed free. Also

Metal Designs, the best winter cemetery decoration, in rich assortment of tasteful designs: Wreaths, Crosses, Anchors, Hearts, etc., in green or white foliage.

Cycas Leaves, (Sago Palm), **natural prepared,** equal to fresh cut in appearance, according to size at 40c., 45c., 50c., 60c. and 75c. each.

Flower Seeds in the best and choicest strains for florists' use. Our new 1894 Catalogue is ready and mailed; if it did not reach you, send for a copy. Address

August Rölker & Sons,

136 & 138 W. 24th St., P. O. Station E. **New York.**



Florists' Pins

Glass Heads, in Black or White.

PRICES:

1,	1½,	2,	2½,	3,	3½,	4 inches,
50c,	75c,	$1.00,	$1.25,	$1.50,	$1.75,	$2.00 per 1000

For Sale by

August Rolker & Sons, New York.
Wm. Elliott & Sons, New York.
H. Bayersdorfer & Co., Philadelphia.
N. F. McCarthy & Co., Boston.
E. H. Hunt, Chicago.
J. C. Vaughan, Chicago.
Huntington Seed Co., Indianapolis, Ind.
W. Ellison, St. Louis.
E. W. Crook, San Francisco.
J. A. Simmers, Toronto, Ont.
Edw. Mullin, Kingston, Ont.

AUG. F. BRABANT, Manufacturer, **54 Warren Street, NEW YORK.**

Mention American Florist.

CANE STAKES

10 to 12 feet long,

at $4.00 per 1,000
3.50 by 5,000
3.00 by 10,000

A. C. OELSCHIG,

. . SAVANNAH, GA.

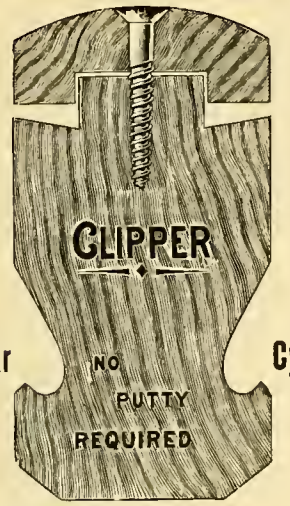
CUTS!

WOOD ENGRAVING,
PHOTO-ENGRAVING,
WAX ENGRAVING,
ZINC ETCHING,
HALF-TONE,
DESIGNING.

MANZ & CO.,

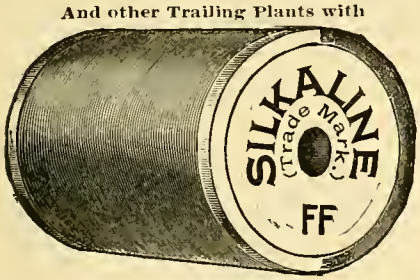
183 Monroe Street, CHICAGO. **ENGRAVERS.**

LOCKLAND LUMBER CO.



MATERIAL FOR
GREENHOUSES.
Send for Circulars and Testimonials.
Address **LOCKLAND, O.**

STRING SMILAX
And other Trailing Plants with



JOHN C. MEYER & CO.,
13 Otis St., (off Summer), BOSTON, MASS.
For sale by all leading Florists' Supply Houses.

FLORISTS' HOSE,
Made by E. W. Holt, member of the Society of American Florists.
Goodyear Rubber Store,
2 W. 14TH ST. NEW YORK.

Increase Your Business
by fostering an interest in plants and flowers among the people in your vicinity. You can best do this by getting subscribers to

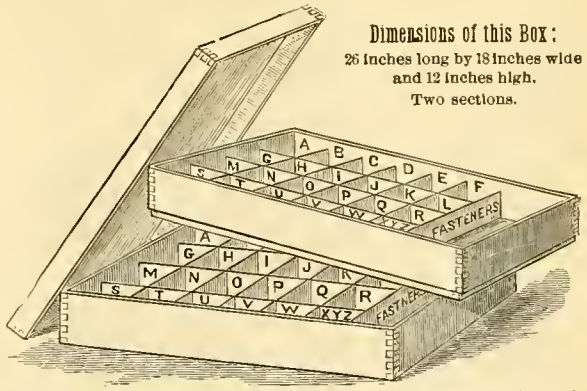
GARDENING . . .
which tells people how to get the most satisfaction out of their gardens, and stimulates them to enlarge and extend their gardening operations.

$1.00 A YEAR is the subscription price of this paper, which is issued twice a month, is handsomely and truthfully illustrated, is thoroughly practical, absolutely free from wind and gush and grinds no axes for anyone.

SPECIAL LOW RATE to florists who will act as agents. We want an agent in every city and town in America. Write for terms now to

THE GARDENING CO.
Monon Building, CHICAGO.





Dimensions of this Box:
26 inches long by 18 inches wide and 12 inches high.
Two sections.

With an order for 500 letters, we furnish a box made of wood, nicely stained and varnished, such as is represented in the cut.

BOSTON FLORIST LETTER CO.
Manufacture THE BEST LETTERS IN THE MARKET.
Sizes 1½-in. and 2-in. 2.00 per 100. Patent fastener with each letter.
OUR NEW SCRIPT LETTER, $4.00 per 100.
N. F. McCARTHY, Treas. & Mangr. | Address 13 Green St., **Boston, Mass.**
Address all correspondence to 1 Music Hall Place.

We have a new **FASTENER** which we consider a decided success. Any customers having old style fasteners which they wish to exchange, can do so without additional cost by writing us.

AGENTS:
A. Rolker & Sons, New York.
Marschuetz & Co., 25 N. 4th St., Phila., Pa.
F. E. McAllister, 22 Dey St., New York.
A. D. Perry & Co., 33 Warren St., Syracuse, New York.
Ernst Kaulmann & Co., 113 N. 4th St., Phila.
H. Bayersdorfer & Co., Philadelphia, Pa.
A. C. Kendal, 115 Ontario St., Cleveland, O.
J. A. Simmers, Toronto, Ont., Agent for Canada.
E. H. Hunt, 79 Lake St., Chicago, Ill.
Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.
H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.
T. W. Wood & Sons, 6th and Marshall Sts., Richmond, Va.
Jas. Vick's Sons, Rochester, N. Y.
C. A. Kuehn, 1122 Pine St., St. Louis, Mo.
D. B. Long, Buffalo, New York.
C. F. Huntington & Co., Indianapolis, Ind.
Z. De Forest Ely & Co., 1024 Market St., Philadelphia, Pa.
Portland Seed Co., 171 2d St., Portland, Ore.

These Letters are handled by all the Wholesalers in Boston.

VICTORY! VICTORY! VICTORY!
The only Certificate of Merit awarded for ventilating apparatus at the St. Louis Coavention was to the
POPULAR STANDARD VENTILATING MACHINE
The florist's friend in working and prices.



No repairs for 5 years. no chains to break as is the result with others.
Opens Sash uniform on 100 foot houses. A new device.
Send for Catalogue aad Estimates.
E. HIPPARD, Youngstown, Ohio.

J. N. STRUCK & BRO.
Manufacturers of
• CYPRESS •
Greenhouse Material,
LOUISVILLE, KY.

Send orders for . . .
CLEAR CYPRESS
Greenhouse Material
from bottom of gutter up.
Correspondence solicited. Estimates cheerfully furnished.
LYMAN FELHEIM, ERIE, PA.

— OUR —
SASH LIFTER AND HINGES
will do the work and cost you less than any other
Send your name and address and we will mail you description and price.
BAY STATE HARDWARE CO.
272 Freeport Street, BOSTON, MASS.
Mention American Florist.

TO TAKE PLACE OF WIND MILLS

HOT AIR PUMPING ENGINES

A Windmill
Is unreliable because it depends upon the elements for its power; hydraulic rams also depend upon favorable conditions and waste as much water as they secure. Steam pumps require skill and hand pumps demand labor and time. The
DE LAMATER-RIDER OR DE LAMATER-ERICSSON Hot-Air Pumping Engines
are especially designed for pumping water, and from shallow streams or any kind of well. They are simple, safe and reliable, require no steam and have no valves. They require very little heat to operate them, and can be arranged for any kind of fuel.
Send for illustrated catalogue to
THE DE LAMATER IRON WORKS,
87 South Fifth Av.,
NEW YORK, N. Y.

GLASS
which is absolutely perfect for modern greenhouse construction.
ROCK BOTTOM PRICES.
Send for Estimates. Satisfaction Guaranteed.
REED GLASS CO.,
65 Warren Street, and 46, 48 & 50 College Place,
NEW YORK CITY.

Denver.

The most delightful winter in years. Freezing point is not reached often. Surely this is a case where the winds have been tempered to the shorn lamb, and we all are grateful that this December is not a mate for that of '92.

Our president, H. H. Givens, has been out to his place this week. He looks very badly and his doctors say he has been as near the boundary line as can be and not pass over. Congestion of the brain was the cause.

Now that all the show fever is down to normal some interest is awakening over some new seedlings, one especially, a crimson carnation of August Schenkel's. It has the glow of our western sunsets, so we all expect to hear of "Colorado" again soon. Some mum sports have shown themselves. One at Mr. Adams' from Ada Spaulding now looks as if it would do to try again.

Two new stores, and on 16th street too. Mrs. Mauff, who already controls some splendid trade from the hill at her old place. Mr. Albert Mauff is to hold the fort.

Locan & Lacky, who have for some time handled part of their stuff from a stand, have built a brick glass front opposite the Masonic Temple.

Trade is much better than we expected; a good call and quite an abundance of material to fill it. Beauties are short as they always have been.

Mr. Beach, who has been at Petersburg, now is at Mrs. Mauff's wholesale place.

LYLE.

Please mention the AMERICAN FLORIST every time you write to an advertiser.

Standard Flower Pots.

$10,000 WORTH IN STOCK,

which we wish to dispose of within the next **60 days** (Dec. 12, 1893), **25**% off list below will be given for cash with order.

Price List.

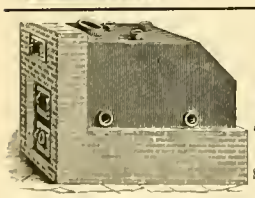
2 -inch,	Per 1000 $3.25	7-inch,	Per 100 $ 3.50
2½-inch,	" 3.50	8-inch,	" 5.00
2½-inch,	" 4.00	9-inch,	" 7.50
3 -inch,	" 5.00	10-inch,	" 10.00
3½-inch,	" 7.25	11-inch,	" 15.00
4 -inch,	" 9.00	12-inch,	" 20.00
5 -inch,	" 13.80	14-inch,	" 40.00
6 -inch,	" 22.00	16-inch,	" 75.00

HILFINGER BROS. POTTERY,
FORT EDWARD, N. Y.

August Rolker & Sons, 136 & 138 W. 24th St., New York City, Agents for New York and vicinity.



GREENHOUSE HEATING
AND VENTILATING.
Superior Hot Water Boilers.
JOHN A. SCOLLAY,
74 & 76 Myrtle Ave., Brooklyn, N.Y.
☞ Send for Catalogue.



GREEN-HOUSE
HEATING,
MYERS & CO.
1518 & 1520 S. 9th St.,
PHILADELPHIA.
Send for catalogue and price list.

D. H. ROBERTS,
159 & 161 South Fifth Ave., New York.
NATURAL GAS MADE GLASS,
for Rose Houses, Conservatories, etc., etc.

When writing to any of the advertisers on this page please mention the American Florist.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO.

NATURAL GAS MADE GLASS,

FOR GREENHOUSES.

Write for latest prices.

"Standard" Flower Pots.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Potterv Company,

BRANCH WAREHOUSES: 713, 715, 717 & 719 Wharton St., Philadelphia, Pa.
Randolph Ave. and Union St., Jersey City, N. J.
Jackson Ave. and Pearson St., Long Island City, L. I.

STANDARD FLOWER POTS

Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.

A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.

We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

Send for price list and samples and we know you will give us an order.

SYRACUSE POTTERY CO. OFFICE: 403 North Salina Street, SYRACUSE, N. Y.

STANDARD FLOWER POTS.

OLD RELIABLE MAKE OF
ELVERSON, SHERWOOD & BARKER.

Write for Catalogue and Price List.

PITTSBURGH CLAY MFG. CO. New Brighton, Pa.

STANDARD FLOWER POTS

Our new **Pottery,** new **Machinery,** the very **best Clay** in the **Country,** and our new **Patent Kilns,** all combined, make the **best Standard Pot in the market.** Send for price list.

PARMENTER MF'G COMPANY,
GEORGE MESSINGER, Manager. East Brookfield, Mass.

FRENCH GLASS For CONSERVATORIES, ROSE HOUSES, Etc. Etc.

VANHORNE, GRIFFEN & CO.,

Importers of PLATE and WINDOW GLASS. Manufacturers of BENT GLASS and FRENCH MIRRORS.

131-133-135-137 FRANKLIN STREET, NEW YORK.

Note—Imported Glass is used in the best grade of Greenhouse building

ESTABLISHED 1866.

FLORISTS WIRE DESIGNS

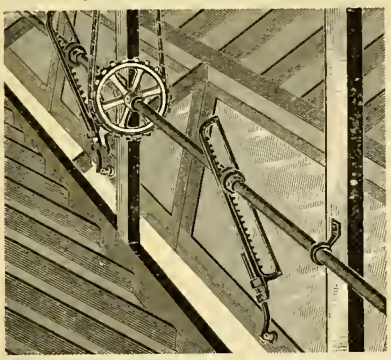
MANUFACTURED BY
N. STEFFENS
335 EAST 21ST ST. NEW YORK.

SEE HERE

BROTHER

FLORIST!

Aren't you tired going through your houses two or three times a day year after year and lifting your ventilating sash one at a time and propping them up with sticks or pots, with a chance of having sash blown off and broken glass to pay for? If you are



We have got just the thing you need, the **NEWEST** and **BEST** thing out. "The New Departure" for **about half** the cost of the old style. Send for Descriptive Catalogue to

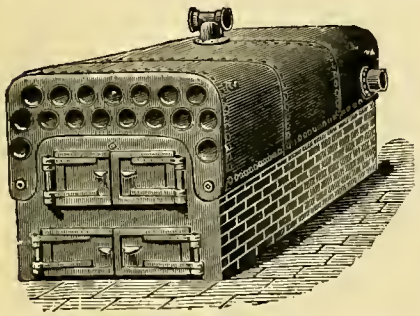
J. D. CARMODY, Evansville, Ind.

ESTABLISHED 1854.

DEVINE'S BOILER WORKS.

THE FLAT TOP TYPE

Wrought Iron Hot Water Boilers

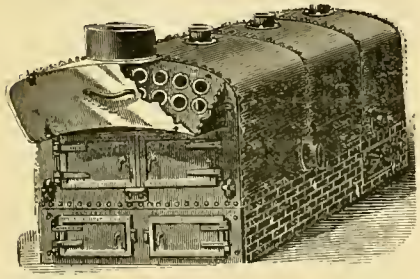


Capacity from 350 to 10,000 feet of four-inch pipe.
SEND FOR NEW LIST.

FRANK DAN BLISH, Att'y,

OFFICE, 189 STATE STREET.
WORKS, 66th & WALLACE STREETS,
CHICAGO.

KROESCHELL BROS.
IMPROVED
Greenhouse Boiler,
41 to 55 Erie St., CHICAGO.



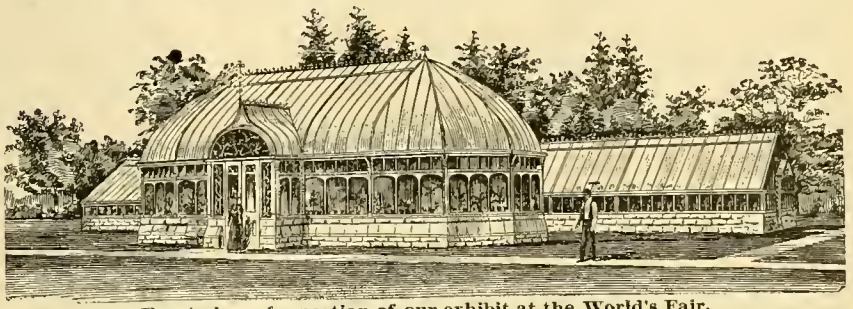
Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

LORD & BURNHAM CO.

Horticultural Architects and Builders,

STEAM AND HOT WATER HEATING ENGINEERS.

☞ Plans and estimates furnished on application.



Front view of a portion of our exhibit at the World's Fair.

. . . SEND FOUR CENTS POSTAGE FOR ILLUSTRATED CATALOGUE. . . .

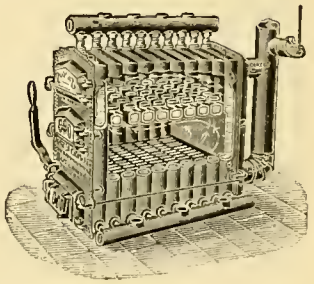
LORD & BURNHAM CO., Irvington-on-Hudson, N. Y.

ROYAL HEATERS

THE RIGHT KIND of a BOILER for a GREENHOUSE.

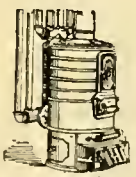
HART & CROUSE,

UTICA, N. Y.



Gurney

HOT WATER HEATERS AND RADIATORS FOR HEATING Dwellings, Public Buildings, Etc. BY HOT WATER CIRCULATION.



GURNEY.

Best for Greenhouses.

Our illustrated book "How best to Heat our Homes" gives the reason why. We send it free.

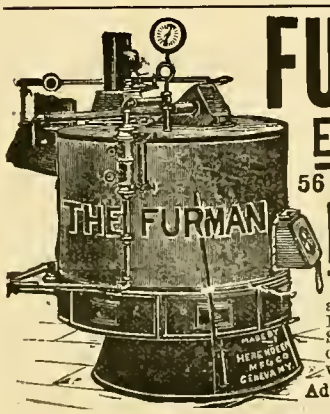
THE BEST IS CHEAPEST.

Gurney Hot Water Heater Co.

HEAD OFFICE:
163 Franklin St., Boston, Mass.
BRANCH OFFICE:
59 Wabash Ave., Chicago, Ill.
SELLING AGENCIES:
Johnson & Co., 71 John St., New York.
J. C. F. Trachsel, 246 Arch St., Philadelphia.



DOUBLE CROWN.



FURMAN BOILERS

Economical — Substantial — Safe.

56 STYLES AND SIZES—BURNS HARD OR SOFT COAL.

Modern Hot-Water Heating

These Boilers have a high reputation for Staunchness, Durability and Safety, and are **GREAT COAL SAVERS.** Minimum Friction and Maximum Velocity only obtained by **VERTICAL WATER CIRCULATION.** Send for new 150-page book giving full particulars and a great deal of valuable information on modern Heating and Ventilation, with plans and tables for correct hot-water work. Mailed free.

Address **HERENDEEN MFG. CO., 26 Vine Street, GENEVA, N. Y.**

Index to Advertisers.

Adv. Rates, etc.....482
Bahr Fritz.....487
Baller F A.....481
Barnard W W & Co....484
Bayersdorfer H & Co..488
Bay State Hdw Co....489
Berger H H & Co.....484
Bonsall Jos E & Son...483
Boston Letter Co.....489
Brabant Aug F.....488
Brackenridge & Co.....485
Brague L B.....481
Brauer & Richter.....486
Brown R S & Sons.....481
Brown & Canfield.....481
Burns & Raynor.....483
Burrow J G.....486
Carman W.....484
Carmody J D.....491
Chicago Floral Co.....487
Chitty H E.....486
Corbrey & McKellar...482
Deamud J B & Co.....482
De Lamater Iron Wks.489
Devine's Boiler Wks...491
Dillon J L.....481
Dreer H A.....484
Elliott W H.....482
Ellison Wm.....482
Ely Z De Forest & Co..484
Felheim Lyman.....489
Felthousen J E.....486
Forstermann L.....485
Gardiner John & Co....484
Gibson J C.....481
Goodyear Rubber Store.....489
Griffith N S.....485
Gurney Heater Co.....491
Hall Ass'n.....488
Hammond Benj.....488
Hancock Geo.....486
Hart James.....483
Hart Michael A.....483
Hart & Crouse.....491
Hartford H E.....481
Herendeen Mfg Co.....491
Herr Albert M.....486
Hews A H & Co.....490
Hilfinger Bros.....490
Hill E G & Co.....487
Hippard E.....489
Hitchings & Co.....492
Hooker H M Co.....490
Horan Edw C.....483
Hulsebosch Bros.....484
Hunt E H.....483
Hunt M A.....481 487
Hunter Frank D.....483
Huntington Seed Co...488
Jennings E B.....486
Joosten C H.....481
Kaufmann Ernst & Co.488
Kennicott Bros Co.....483
Knopff Oscar & Co.....484
Kroeschell Bros.....491
Kuehn C A.....482
La Roche & Stahl.....482
Lawrence Joe N.....487
Little M B.....487
Lockland Lumber Co...489
Long Dan'l B.....482
Lonsdale Edwin481 485 486
Lord & Burnham Co...491
McCarthy N F & Co....483
McCrea & Cole.....486
McFarland J H.....485
McFarland J H Co.....488
MacBean A S.....485
Manz J & Co.....488
Marschuetz & Co.....488
May John N.....486
Meyer John C & Co...489
Michel Plant & Bulb Co.....484
Millang Bros.....483
Moffatt G J.....484
Moninger Jno C.....492
Myers & Co.....490
National Plant Co.....482
Neff L L.....481
Oelschig A C.....481 488
Ouwerkerk P.....487
Pabst Theo & Co.....484
Parmenter Mfg Co.....490
Pennock C J.....486
Pennock Sam'l S.....482
Pierson F R Co.....485
Pittsburg Clay Mfg Co.490
Quaker City Mach Co..492
Randall A L.....483
Reed Glass Co.....489
Reinberg Bros.....483
Roberts D H.....490
Roehrs Theo.....483
Roemer Fred.....481
Rolker A & Sons.....488
Rupp John F.....485
Sander & Co.....485
Schmelder Fred.....486
Scollay John A.....490
Scott Alex.....481
Seaver A H.....487
Shelmire W R.....487
Sheridan W F.....483
Siebrecht & Wadley....485
Sievers John H.....487
Situations wants.....481
Steffens N.....490
Streby S O.....486
Struck J N & Bro.....489
Sunderbruch H L.....482
Sunset Seed & Plant Co484
Sutherland Geo A.....485
Swayne Edward.....486
Syracuse Pottery Co....490
Tricker Wm.....481
Van Horne Griffen & Co.....490
Vaughan J C.....487
Weathered's Sons T W.492
Weeber & Don.....484
Welch Bros.....483
Whilldin Pot Co.....490
Whitton Stephen.....487
Wight W P.....488
Wittbold George.....486
Wolf E E.....492
Wood Bros.....487
Woodruff W B.....485
Young John.....483
Young Thos Jr.....482

CINCINNATI.—Christmas trade was far below last year in all branches. Roses sold fairly well, as did violets and carnations. Lily of the valley and all forcing stock was a perfect glut. At the flower market stock was almost given away.

DO YOU WANT a list of the leading cemetery superintendents? You will find such a list in our new trade directory and reference book.

WHEN writing our advertisers please use one of your printed business letter heads or enclose your business card.

CYPRESS GREEN HOUSE MATERIAL

CLEAR

CY

SASH

BARS

HOT BED

VENTILATING SASH

JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

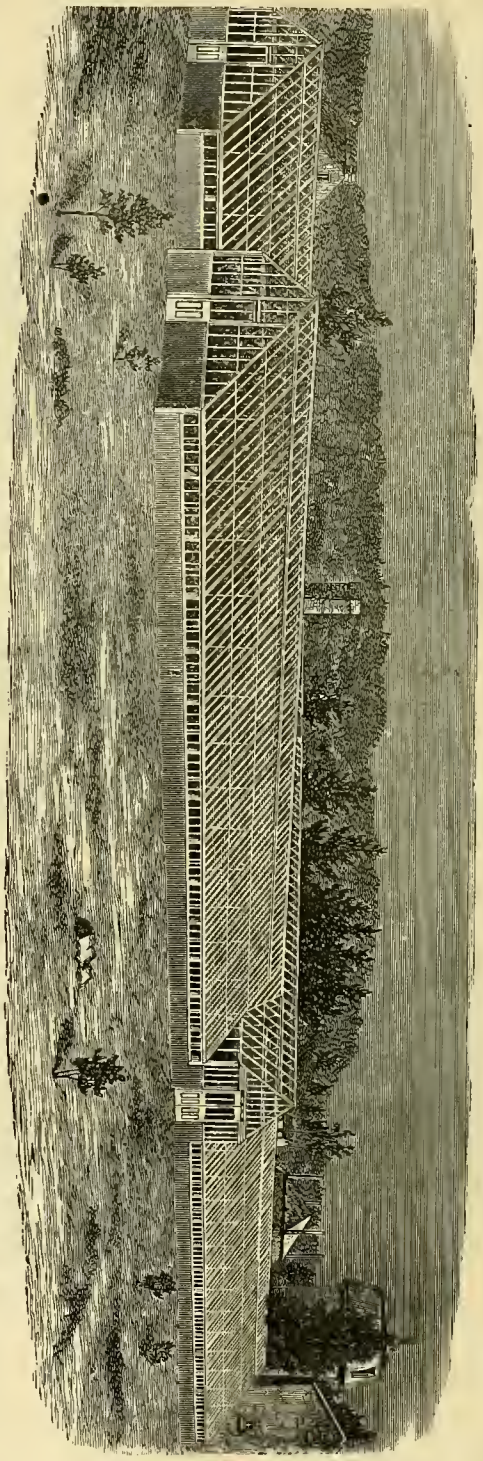
Goodell HH 15 Dec 93
Mass Agri Col

HITCHINGS & CO.

ESTABLISHED 1844.

GREENHOUSE HEATING AND VENTILATING,

HORTICULTURAL ARCHITECTURE AND BUILDING.



COMMERCIAL ROSE AND GREENHOUSES, CONSERVATORIES, PALM HOUSES, ETC., CONSTRUCTED WITH POSTS, RAFTERS, PURLINS, GUTTERS, SILLS, COLUMNS AND BRACKETS, ALL OF IRON; AND GLAZING BARS, VENTILATING SASH AND SIDING OF WOOD. ERECTED COMPLETE, OR THE STRUCTURAL IRON WORK SHIPPED READY FOR ERECTION WITH PLANS, DETAILS AND FULL INSTRUCTIONS TO ENABLE LOCAL MECHANICS TO COMPLETE THE SAME.

SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUES.

—) IRON BENCH FRAMES FOR SLATE OR WOOD TOPS. (—

HITCHINGS & CO., 233 Mercer Street, NEW YORK.

THOS. W. WEATHERED'S SONS,

INCORPORATED.

Horticultural Architects and Hot Water Engineers

Send for Catalogue, enclosing 4 cents in stamps.

No. 244 Canal St., NEW YORK CITY.

THE CHAMPION Automatic Ventilator.

The cheapest, easiest to operate, and by far the best machine in the market. Don't buy a Ventilator until you have seen my illustrated descriptive circular, which will be sent you free, giving prices, etc. Also Champion Soil Pulverizer and Sifter.

Address, Box 114. **E. E. WOLF,** SPRINGFIELD, O.

Mention American Florist.

EVANS' IMPROVED

CHALLENGE VENTILATING APPARATUS

Write for Illustrated Catalogue.

QUAKER CITY MACHINE WORKS, Richmond, Ind.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

THE AMERICAN FLORIST

A WEEKLY JOURNAL FOR THE TRADE

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. IX. *CHICAGO AND NEW YORK, JANUARY 4, 1894.* *No. 292*

THE AMERICAN FLORIST

Copyright 1894, by American Florist Company. Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY,
322 Dearborn Street, Chicago.

Subscription, $1.00 a year. To Europe, $2.00.

Address all communications to

AMERICAN FLORIST COMPANY,
P. O. Drawer 164, CHICAGO.

Eastern Office: 67 Bromfield St., Boston.

SOCIETY OF AMERICAN FLORISTS.

J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. Tenth annual meeting at Atlantic City, N. J., August, 1894.

CONTENTS.

Holiday decorations (6 illus) 493
Christmas trade—reports from all sections. . . 495
Greenhouse coustruction (illus) 496
Philadelphia 497
Chicago 497
Boston 498
New York 498
Montreal 498
Buffalo 499
Toronto 499
Washington 499
Seasonable hiuts 499
Catalogues received 502
St. Louis 502
The seed trade 504
Cleveland 506
Baltimore 508
Heating pipes 510

THE HOLIDAY TRADE, as shown by reports printed in this issue and that for last week, averaged a vast sight better than we had dared to hope in view of the business depression. It is plain that the people still have money to spend and will spend it too, when occasion arises, and when prices are moderate. While the returns to the large wholesale growers will undoubtedly be short in many cases it would seem that most florists who retail their own product have realized more than ever before on account of the increased cut, due to the favorable weather. Where prices have always been moderate everything went at usual rates. On the whole we may feel exceedingly well satisfied.

FLUSHING, N. Y.—The wife of Mr. Samuel B. Parsons died December 29, aged 70 years.

CHRYSANTHEMUM NIVEUS has been awarded a first-class certificate by the Royal Horticultural Society of England.

DO YOU WANT an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our trade directory and reference book.



PARLOR DOUBLE DOORWAY

Holiday Decorations.

When the guest enters the room which has been decorated by a florist for his reception, through the liberality and good will of his hostess, his eye sweeps over the whole arrangement, and with a glance and one or two compliments the work which took hours to accomplish is passed and dismissed from the mind.

It is somewhat discouraging for one who has expended a great deal of anxious care over something artistic to have it meet with indifference from other eyes. The indifferent eye is absolutely disheartening; the critical one is decidedly preferable; at least the latter shows life and interest, although it may be of a kind we consider unfavorable.

What we want most nowadays is novelty, at least that is the word which is generally in use to express our wish to escape from everything commonplace. To be sure there is a little unhealthiness in this constant craving for something new, but there is no gainsaying the fact that our American life is full of sameness; our houses and scarf pins are all turned out by the thousands from barely two or three patterns. The decorations of a parlor or dining room are no exception to this rule; whether it be wall paper or flowers and plants it is always the same, there is no variety. Mrs. Jones' house is so much like Mrs. Smith's that it is hard to remember the little differences.

The suggestions which follow for the decoration of a dwelling house on some special occasion by flowers and greens are intended to point out the way in which one can overcome the danger of being commonplace. There is no room without its vase or stand, and there are many little ways in which one may use a bit of bric-a-brac or a ribbon which will remove the florist's work from every appearance of monotony and conventionality.

If there is a blue and white Japanese umbrella jar it may be used effectively in the way my sketch indicates, and placed in some prominent position in the decorative feature of the hall. The hat stand might be decorated simply with greens and the mirror left so it will reflect a bright bit of color in some flowers which should be placed opposite in a tall vase.



AN UMBRELLA JAR.

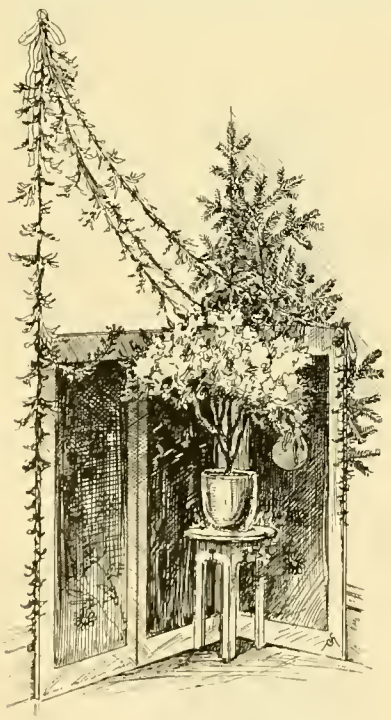
I do not hesitate to recommend such an arrangement as the accompanying one for the parlor double doorway, although it necessitates the use of four small nails in the woodwork, and two common Jap-

anese brackets for the little jars holding some delicate vines, and if one desires it a few dainty flowers like orchids or Begonia incarnata.

The Jerusalem cherry is a charmingly prim little plant and it might be used to advantage in any spot where the whole of its figure will be seen. It needs a pretty pot and some moss to hide the homely clay pot it grows in; the same applies to the azalea. But in using the latter it ought to be placed where it will be seen by itself. I do not wish to speak in any derogatory terms about anything which seems to me devoid of artistic merit; it is much better to pass what is worthless and draw attention to that which is really beautiful; but I must say that the fashion of massing a lot of plants together is in the majority of cases, especially in moderately large rooms, decidedly tasteless. The azalea and the Jerusalem cherry should be isolated.

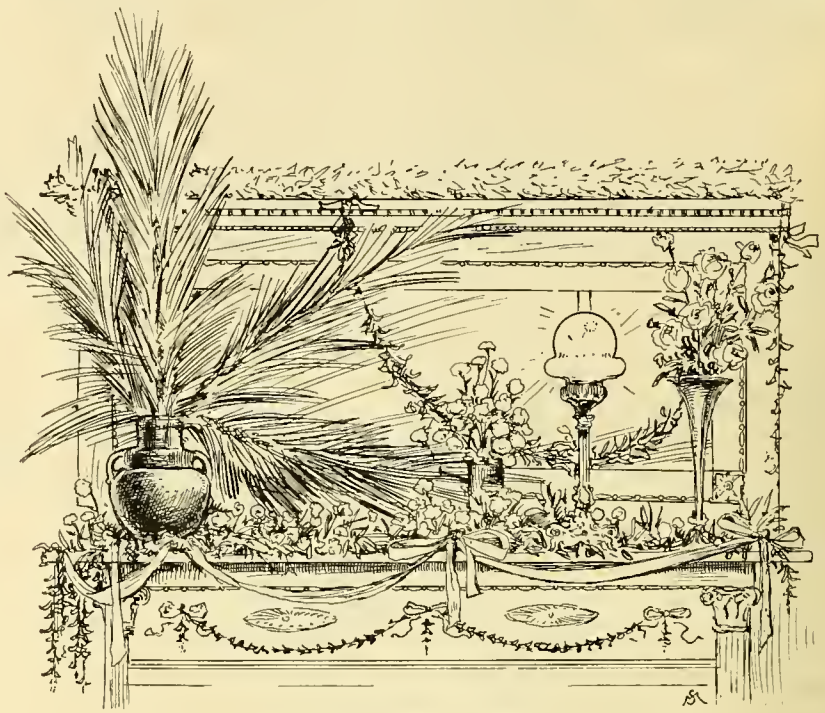
Note my arrangement for the corner of a room; instead of banishing the beautilul black silk, gold embroidered Japanese screen it might be fastened flat against the wall and thus furnish a splendid background for a specimen of Deutsche Perle azalea. The smilax or asparagus can be fastened to the picture moulding and hang gracefully until it touches the edge of the screen.

My suggestion for a mantel pre-supposes the style of this to be Colonial, but the idea can be worked out with a mantel of any style. No material for holiday decorations impresses me with its artistic worth quite so strongly as this long needle pine (Pinus Australis), which is capable of being arranged very beautifully in some prominent point of the decorated room. On the mantel shelf



FOR THE CORNER OF A ROOM.

I should place white and yellow carnations and mignonette; in the vase at the right a fine bunch of yellow or white roses would be pretty; and last, but not least, is the effective little lamp whose dainty light will cast a soft glow over the neighboring flowers. A fairy lamp would also add materially to the beauty of the design.



A DECORATED MANTEL.

This removal of things in general from all appearance of the commonplace means that it is better to cut loose from all usual customs in the decoration of a room, and adapt flowers and plants to every condition of furniture and architecture; the bookcase, cabinet and china dresser all afford some excellent points for the display of flowers. The top of a bit of furniture which is just below the level of the eye can be covered with greens and a vase placed in the midst filled with a strong bit of color, or the sweeping lines and effective form of a plant like the



THE TOP OF A CHINA DRESSER.

palm or even the poinsettia. Narcissi and cyclamens should never be placed more than a couple of feet or so above the floor; they are plants which (as they grow naturally) we look down upon, and I see no reason why we should not adhere to natural methods in working out a decorative scheme.

Whenever flowers are to be accompanied by ribbons these should be very carefully selected lest the colors interfere with each other. In the little drawing of a hanging silver bowl containing a bunch of the magenta cattleya the ribbon is supposed to be of a bluer tone than the flowers. Any other color than a dull magenta or a purple magenta does not serve the purpose quite so well; I have seen this fact demonstrated beyond all question, where the ribbon was crimson in hue, and as a consequence the delicate sober color of the flowers was completely spoiled. Such a hanging bowl or basket is a delightfully appropriate accessory to artistically arranged flowers; there are many pretty designs made in silver plated ware of this order, any of which would be



A HANGING SILVER BOWL.

an acquisition to the florists' stock in trade.

The expression of good taste in the decoration of a room with flowers and greens depends upon the methods which are put in practice. If one side of the parlor is banked up with a "medley" of palms, ferns, roses, poinsettias and a variety of evergreens, no matter how skillfully these may be arranged, I should be sure before looking at the group that

something of good taste was lacking. The method here is at fault; without doubt there would be a *dozen* places in the room which would need some of the greens, which were jammed together in one spot; not that I do not believe in making some particular point in the decorations pronounced and effective beyond all others, but I *do* think it very unnecessary to overcrowd beautiful material in the attempt to produce beautiful effects. The florist who fails to display the charming figure of the calla, the azalea or the palm, loses half the artistic value of the material he handles.

Possibly the individualization of different plants in a decorative scheme may meet with the criticism that the effect is weak and thin; *that* depends upon the skill of the decorator. A method of work so different from what is usual is apt to meet with adverse opinions; but the telling effect of a small number of plants so admirably distributed that the beholder is not conscious of the fact that he sees something less than is usual, will carry the day. And in the end the vulgar profusion of plants and flowers which the uninventive florist uses to hide his ignorance of artistic methods will fail to produce an impression, and the *artistic* florist will be asked to display his good taste in an unlimited manner and with unlimited material.

F. SCHUYLER MATHEWS.

CHRISTMAS TRADE.

Reports From All Sections.

Following we give reports from all sections not covered by our regular correspondents. These reports were made on blanks covering the following inquiries: "Were the total sales (meaning the amount in money value and not in quantity of flowers, etc.) greater or less than last year, and if so, about what was the percentage of increase or decrease? How did retail prices obtained compare with those of last year? Was the supply of flowers, etc. equal to the demand? How did they compare with last year in quality? In view of the low wholesale prices did you buy more than in previous years, and if so was it all sold at a profit? Did you note any marked increase in the call for any special flower, etc.? Did you note any interesting peculiarity in the trade this year not covered in above questions?" All the comparisons are with the trade of last year except where otherwise noted.

MOBILE, ALA.—Much larger. Prices about same. Sold all we had. Better quality. General call was for mixed flowers.

LAWRENCE, KANS.—About 10% greater. Prices same. Supply not equal to demand. Quality better. Greater demand for roses.

BLOOMINGTON, ILL.—Slightly better. Prices about same. Supply equal to demand. Quality better. Increased call for carnations.

OTTAWA, ONT.—About 20% larger. No change in prices. Supply short. Quality equal. There were no low wholesale prices in Canada.

TAUNTON, MASS.—About 25% larger. Prices a trifle lower. Supply equal to demand. Quality better. More call for pinks and less for roses.

NASHUA, N. H.—A little larger. Prices trifle lower. Supply equal to demand. Quality fully equal if not better. We bought more and sold all at a profit.

NEW ORLEANS.—A little larger. Prices a trifle better. Supply equal to demand. Quality compared favorably. Depended on home grown stock. Increased call for violets.

YOUNGSTOWN, O.—About ¼ less. Prices ⅓ lower. Supply was equal to demand. Quality about same. Did not buy any. Increased call for the cheaper flowers—carnations, etc.

LANCASTER, PA.—Orders were not so liberal in size but no cut flowers were left over. Prices about same as last year. Increased call for cheaper grades of plants, something "for from 25 cents to $2.00."

BIRMINGHAM, ALA.—Increase of 50%. Prices lower. Supply was equal to demand. Quality finer. Bought none. Plenty of home grown. Sales in smaller quantities. No demand for blooming plants this year.

TERRE HAUTE, IND.—About same. Retail prices ditto. Supply not equal to demand. Quality better. Bought no more than usual. Increased call for violets and Beauties. Holly and galax leaves sold better than ever before.

CINCINNATI, O.—About ⅓ less. Prices very much lower. Supply equal to demand except Beauties, Mermets and Brides. Quality under—so much salted stock. Not so much bought. The trade did not buy until the last moment.

TOPEKA, KANS.—About same as last year. Prices too. Short of roses and carnations. Quality same. Bought a little heavier. On account of the warm weather the stock shipped here did not arrive in good condition, some of it being a total loss.

PORTLAND, ME.—About 30% less. Prices about equal. Supply more than equal to demand. Quality equal. Wholesale prices were as high as last year. Had to retail on small margin. More demand for the cheaper grades of roses in place of the finer varieties.

PITTSBURG, PA.—About 10% greater. Prices 25% lower. Supply about equal to demand. Shipped in stock not quite so good. Bought more freely and all sold at a profit. Heavy increased call for violets and a general protest against the high price of same.

EASTON, PA.—Exceptionally good and much better than we expected. General sales were 17% greater and with prices 10 to 15% lower. Big call for holly, greens and mistletoe. Most call was for colored flowers. Very little white sold except carnations.

GRAND RAPIDS, MICH.—About 30% less. Prices 20 to 50% lower. Supply equal to demand on all but a very few things. Quality about as usual. Much less shipped in. Call was mainly for the cheaper flowers, still could have sold more Beauties and Meteors.

NEW LONDON, CONN.—Sales about ¼ larger. Retail prices about same. Supply sufficient to fill all orders. Quality better, especially carnations. We bought less, only a few carnations, which were all sold. Cheap palms were much asked for—clean bushy plants at $1 each.

HAMILTON, ONT.—Fully 30% greater. Retail prices lower. Plenty of flowers except carnations. Quality good. Bought less. Marked call for good flowering plants. There was a decided inclination to withhold orders until the last moment on account of the fluctuation in prices.

EVANSVILLE, IND.—About 20% increase. Prices about same. Supply equal to demand. Quality some better. Did not buy any—had enough home grown. Loose roses had the call. An important peculiarity was that our customers, as a rule, paid cash for what they purchased.

MINNEAPOLIS, MINN.—Sales ⅓ more in value. Retail prices ½ lower. Supply equal to demand. Quality fully equal. Bought about same as last year, but made no profit on it. Most call was for roses. Trade ran mostly to blooming plants and loose flowers; no bouquets or baskets.

COLUMBUS, O.—Somewhat larger. Prices about same. Supply not quite equal to demand. Quality improved. Bought about same as last year, but could have sold more. Increased call for carnations and violets. More orders came in late and more calls at the last moment than formerly.

SYRACUSE, N. Y.—Orders came in late, but finally averaged about same as last year. Prices practically the same. Supply was equal to demand. Quality good. Seems to be a growing tendency to fight a little shy of roses on account of high prices usually charged at the season. Blooming plants sold well.

HAVERHILL, MASS.—Very good indeed, although not quite up to last year. Prices about the same, except roses, which were a little lower. Carnations were the prevailing favorites. The demand for holly and Christmas greens increases every year and everything in that line was cleaned out.

ST. PAUL, MINN.—About 15% less. Prices from 10 to 30% lower. Supply fully equal to demand. Quality better. Bought less than usual. Roses had the main call as usual, and notwithstanding the high prices violets were in strong demand. People bought in smaller quantities, orders averaging much less in size than in former years.

MILWAUKEE, WIS.—About 10% larger. Prices about 30% lower. Supply about even except of carnations. Quality averaged better. Bought more than usual and sold out at a profit. A slight increase in demand for carnations. Sales were entirely in small lots. New Years trade was the best in five years. The low prices is surely what did it.

ELMIRA, N. Y.—Slight increase. Prices 15% lower. Shortage in supply of roses and carnations. Quality fully equal to last year. Increased call for roses, carnations and violets. With the exception of freesia there was no call for bulbous stock. Increased call for violets may have been due to mild weather. Holly sold better than last year.

LOUISVILLE, KY.—About the same. Sales greater, but prices about 25% lower. Supply was equal to demand. Quality equal. But little shipped in. Increased call for violets. Sales of holly and lycopodium were larger but prices lower. On account of fine weather more was sold, but in smaller quantities. Decorations were missing this year, except small ones.

FT. WAYNE, IND.—Increase of 40%. Prices on roses were ⅓ less; other flowers about same as last year. Supply equal to demand except on colored carnations, which were a little short. Quality much better. Bought but little. Not much call for bulb stuff. Greens of all

kinds sold well. Also primulas, Harrisii lilies and other plants in bloom and at good prices.

LITTLE ROCK, ARK.—About ⅓ more both in quantity and money value. Prices equal. Supply hardly equal to demand. Quality fully equal if not better. We can not buy from a distance and sell again at a profit at the wholesale rates for Christmas, so depended upon our home supply. Big call for roses and carnations. Sold lots of hyacinths, as in the round up it was hyacinths or nothing.

LONDON, ONT.—Increase of about 22%. Prices 25% lower. Supply equal to demand except of carnations. Quality equal except Mermets, which were pale. Very little stock bought from a distance. Orders were nearly all small, and for loose flowers. Very marked increase in call for blooming plants. A very agreeable change was that while total sales were larger those charged were 65% less.

CAMDEN, N. J.—Much larger. Prices about same. Supply larger, the mild weather increasing the yield. Quality superior. Philadelphia wholesale prices were decidedly too inflated to allow a margin of profit to the dealer. We bought as little as possible. Increased call for carnations, holly wreaths and mistletoe. Main call was for loose flowers. Altogether Christmas trade was very encouraging.

FALL RIVER, MASS.—Trade was good here, but prices considerably lower than usual. Mermets and Brides sold for $1.50 per dozen, carnations 45 cents, violets $2 a 100; Perles, Wattevilles, Gontiers and Hoste, $1 a dozen. There was an increased demand for holly, ferns and palms. At 3 o'clock Christmas day everything was sold out and stores closed. There was a great shortage of violets and carnations.

UTICA, N. Y.—About same. Stock of good quality brought about same prices; poor stock not wanted. Shortage in orchids, violets, pink carnations and pink roses. Quality about same. Bought little from distance. No basket work. Mainly boxes of choice flowers and with almost every order a request to put in maidenhair fern. Much increased call for orchids excepting Cypripedium insigne, for which there was scarcely any call.

PATERSON, N. J.—Much larger. Prices of flowers, greens, etc. were about same as last year. Supply just about right, and everything sold. Carnations, hyacinths and similar flowers were fine; roses were a little inferior. Bought only a few roses which about held their own—nothing more. Seemingly an increased demand for carnations. The main peculiarity of trade this Christmas was that there was so much money to spend for flowers these remarkably hard times.

DES MOINES, IA.—Prices 25% lower, hence income less. Had to lower prices to induce sales. Supply short. Did not buy as much as usual for fear of being overloaded. Quality generally good. Increased call for red roses and carnations and holly. Customers would not book early orders; were undecided as to whether they would buy, but came in late and were then disappointed. Hard times cry kept us from buying as much as usual fearing would not have good call.

DETROIT, MICH.—Gross returns were about 10% less, but consider net results equal as the mild weather saved time, wrapping material, etc. Prices were a trifle less on cheap stuff, but held up on stock of good quality. Supply fully equal to demand. Could not buy here for less than last year's rates. In some cases paid more for good stuff. Increased call for violets. Breitmeyer retailed 20,000 in three days. A great demand for holly wreaths. Sold twice as much as last year.

INDIANAPOLIS, IND.—About the same. Trade better than expected. Prices somewhat lower, though good flowers brought good prices. Supply equal to demand except Beauties and violets. Hyacinths, valley, etc. were a glut. Shipped stock was the poorest in years. Increased call for violets, Beauties and carnations. Decorative plants sold well; also blooming plants. On account of pleasant weather many flowers were worn on the street. The bad policy of salting roses for a higher price is still in vogue.

DAVENPORT, IA.—Somewhat larger. Retail prices about the same, except on roses, which were rather lower (except Beauties). Supply about equal to demand. Quality good. Some bought more, but the majority depended on home grown flowers only. One florist reports big call for roses and that he sold long stemmed Beauties at $9 a dozen. Not so many large orders but more small ones, so the total shows an increase. Good call for plants. One florist sold more palms Christmas week than before in a year.

PROVIDENCE, R. I.—Christmas orders did not come until very late. Customers bought about as liberally as last season, but kicked everlastingly on account of sudden jump in prices. Nothing short but American Beauty and Meteor roses. Prices were about same as last year, with an abundance of nearly everything. Romans and paper white were too plentiful. Demand for holly, mistletoe and greens was very good, but not until the last two or three days. The sudden rise in prices is detrimental to business, as regular customers don't expect it.

NEW BEDFORD, MASS.—Christmas trade here was very good on the whole. Prices went a little lower than last year. The supply was short in colored pinks. Daybreak was especially in demand. Roses sold fairly, but violets went unexpectedly slow. The biggest demand was for potted plants. Palms, ferns, primroses sold better than ever. Evergreens of all kinds went well on account of the snow in the woods which prevented people from going out and getting their own trees, and made it hard for the farmers, as they had not laid in a stock. Little call for bulbous stuff.

SPRINGFIELD, ILL.—Greater, owing to increase in number of florists; ergo, flowers. Prices ½ less on roses; other stuff slightly less than last year. On Christmas morning we could have sold twice the amount. Quality good. Very little bought; retail prices were at wholesale notch. Increased call for carnations and violets. People wanted these and roses. Buyers waited till last moment and did not order in advance as usual. Some of the florists sold roses of all kinds indiscriminately at $1 a dozen. Trade was very quiet for two weeks preceding Christmas.

NEW HAVEN, CONN.—Better than last year. Customers bought more of both greens and flowers. Retail prices were about the same as heretofore. The stock was good and carnations were about the only thing that ran out. This they generally do, as they are more for the money and the cheapest. Roman hyacinths, smilax and narcissus were overstocked. There is a growing demand for better roses. American Beauties were in demand even at the high prices, and there was a great call for violets. The demand for holly seems to be growing rapidly. Sales here must have been double what they were last year. There was also quite a good call for mistletoe.

READING, PA.—Prices about the same as last year. Demand better than ever before, but the supply rather less than last year in consequence of so much glass having been devoted to chrysanthemums. All flowers were well used up except bulbous stuff, which was equal to the demand. Taste ran decidedly in favor of loose flowers with long stems, roses being most in favor. The weather was very mild. Many palms and poinsettias were used in the different churches, but holly and laurel wreathing were not as much in demand as in former years. This trade has been overdone by all the hucksters in town. A good trade was done in potted plants and jardinieres and mixed fern dishes. Palms in 5 to 7 inch pots sold well, with kentias taking the lead. Cyclamens and primroses also sold well.

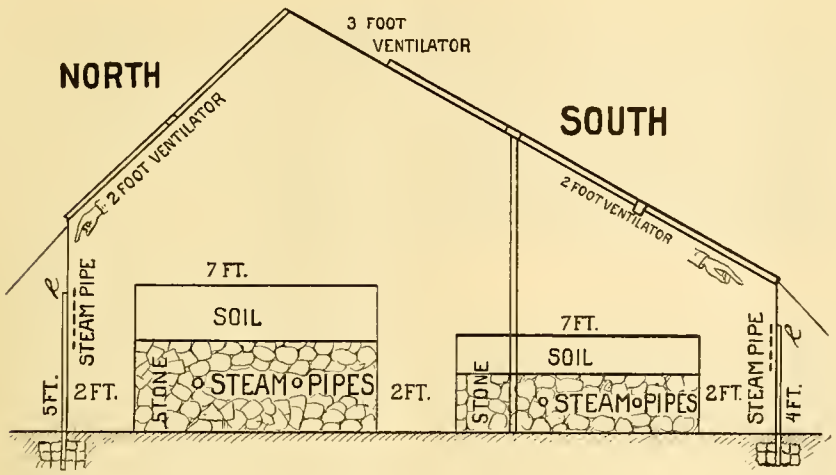
SPRINGFIELD, MASS.—Christmas trade was very late in starting; There was quite a noticeable falling off in orders for the more expensive flowers; prices about the same as last year. Violets were short until the last moment and then offered by growers at a much less figure than three days before. Other stock was abundant, and Romans and paper whites overabundant. The demand for holly was very slow until the last minute, when the supply was not sufficient. Other greens were abundant, but not in much demand. Churches, at least some of them, voted to do away with their Christmas decorations and "give the money to the poor." As one church man said, "the poor we always have with us, but as Christmas comes but once a year I question the wisdom of doing away with these special decorations."

ROCHESTER, N. Y.—Christmas trade was good, but in smaller sales than last year, still the amount of cash sales was a few dollars ahead. People seemed to come out the last moment. Credit sales are not in shape yet. They may be more or less than last year. Some of the wealthy people gave to the poor instead of buying flowers and only bought greens. Everybody sold out of holly. There was a lighter purchase made than usual, as we did not think the demand would equal other years. Evergreens did not sell so well, as the churches had very little decorations. Flowers were less in price than last year. Roses sold at $2 to $3 per dozen and carnations at 60 and 75 cents. The warm weather affected the roses; a good many went to pieces, Gontiers particularly. Violets did not sell well. Carnations sold best of all. Most florists had flowers left when the day closed, but not a large amount.

Greenhouse Construction.

We present herewith a cross section of one of the new iron houses erected by Mr. John H. Taylor, Bayside, N. Y.

The house is 20 feet wide, the rafters and purlins are of iron, the glass 16x20 and sash bars 1x1¼. The other dimensions are given in the engraving. A feature that has attracted much favorable comment is the use of what might be termed "solid beds" built up of coarse crushed stone, through which steam pipes



SECTION OF ONE OF MR. TAYLOR'S ROSE HOUSES.

are run, the soil being placed on top of the stone. This gives all the advantages of a raised bed and is as permanent as the usual solid bed.

Mr. Taylor is a firm believer in the value of side ventilation. As will be noted by reference to the engraving he has ventilators on both sides as well as at the top. The houses are separated one from the other to prevent any possibility of snow laying in the gutters, and there are no side benches.

We believe our readers will be much interested in this cross section of a house that represents the results of the thought and experience of one of our most successful growers.

Philadelphia.

Perhaps it may be a little late to speak of the holiday business, but there is one feature of it that deserves mention, and that is the increasing demand for plants, both flowering and ornamental foliage, such as palms, crotons, dracænas, etc. Florists who make a specialty of plants and have greenhouses attached to their stores report having had a surprisingly large sale for this class of stock. Thos. Cartledge, of Pennock Bros., said it was the best Christmas they ever had for plants; it was a sort of a "little Easter" in this respect. Robt. Crawford said in substance the same thing, reporting that plants and jardinieres sold remarkably well. It was the same at Geo. Craig's. The principal blooming plants were primroses, poinsettias, begonias, stevias, callas and Harrisii lilies, and some very nice plants of azaleas, the latter being sent in by Mr. Harris and a few by J. Becker. These were in great demand and were soon sold out. There were some very pretty ericas from Long Island which sold well. S. Edwards & Son sent in quite a lot of ardisias in 4 and 5-inch pots which were remarkably well berried, these went like hot cakes. There was also a very large sale of ferns, as everybody had the little table fernery fixed up anew for the Christmas dinner. We believe there will be quite a demand for choice blooming plants at Christmas, for some years to come, and it is to be hoped that "old Prob." will favor us with just such weather as we had this year, which would seem to have been intended for Easter, it was so mild.

Many of the carnations that supplied the Christmas trade, while they looked very well when received from the grower, went to sleep shortly after. It is all right for the grower to get a good price for his products, but he should give good value for the money. The retailer must charge a high price for his flowers at such times to come out, and he ought to be able to deliver fresh flowers and not those that will wilt or go to pieces as soon as they are placed in a warm room. There is also something said at times about seconds, but not at Christmas time, the first and second quality seem to be congenial friends about this season and are to be found huddled together in bunches with a first class price attached. There is just as much robbery in this as there would be in giving the grower a lot of damaged money, out of every dollars worth of which he could only use 80 to 90 cents, the rest having to be subject to a discount. Yet the retailer has to accept their stock at first class prices and make the best use he can of the seconds he finds in it.

The past week business has been very quiet, still prices have been held up, the growers saying they would not drop much until after the first of the year. Mermets, Brides, La France, Meteors and such stock started the week at $12, dropped to $10 and later on some were sold at $8. Perles, Cusins and Wattevilles ranged from $8 to $6, with some closing the week at $5. Beauties and Belles started at $60, dropped to $50 and some good flowers sold at $40. Carnations opened the week at $2.50, dropped to $2 with some good white at $1.50, this color seeming to be the most plentiful. For the fancies $4 was asked for Ophelia and Sweetbrier and the best Daybreak, while Edna Craig sold for $5, and Mr. Lonsdale seemed to have little trouble to get $7 for Helen Keller.

The prices of all stock held up very well considering the volume of business; bulbous flowers are about the same, all this class of stock is so plentiful that the price depends a good deal upon the ability of the man who buys it. The average price of valley is $4, Romans and narcissus $2 to $3. Smilax is still plentiful at $15, while $20 is asked for some extra fine.

New Years business was not such as to warraut auy increase in the price of flowers; it was a good busy day, but there was little to remind one of the old times when the growers and commission men were told to "Duplicate our Christmas order." Will those good times ever come again?

Faust Brothers have purchased the business of Mrs. John Plender at 29th and Girard avenue, and will manage this establishment together with their nurseries at Bala.

The Longinette team of bowlers were again defeated by the Baker faction at the alleys last Thursday evening. George McLean was responsible, as he put up a score of 229 in the last game and pulled the match out of the fire. Baker sustained his reputation as a kicker, he is certainly the greatest of them all.

Mushrooms have sold as low as 25c. per pound recently, and hot house tomatoes are down to 30 and 35. Very low for these products at this season of the year. K.

Chicago.

Referring again to the Christmas trade, it was certainly full of surprises, some of a very pleasant nature and some otherwise. For weeks the most doleful predictions regarding holiday trade were made, and the state of the business up to the very eve of Christmas seemed to fully warrant them; the outlook was certainly gloomy.

The first pleasant surprise to the retailers came in the shape of holiday price lists. For the first time in the history of the flower trade in this city the prices of roses were most reasonable.

The next surprise (not of as cheerful a nature as the former) came to the commission men. The retailers were not dazzled enough by the low quotations to jump in with very heavy orders. Everybody seemed to be very conservative in their purchases, so when business opened on Saturday all orders for stock were filled promptly at the lowest quotations. Choice roses went at $10, with few sales of extra choice La France, Testout and Meteor at $12 to $15, small roses at from $3 to $5.

After the first orders were filled in the morning the retailer laid low. In the afternoon came the break in the market; prices went all to pieces; good stock from Gontiers up to Meteors sold at $25 for 1000 lots, and then some of the large dealers went in heavily. The trade was brisk, contrary to all prediction, but the downward tendency of the market was not checked until Christmas day. Prices on that day ruled firm at figures as first quoted. Beauties were about the only roses that did not suffer in the general slump; 50 cents for best quality was the ruling price; the supply was far larger than at any former season, but the demand was far in advance of the supply.

The biggest surprise we imagine will be that of the grower when he receives his returns from the commission man, and it will certainly be a very disagreeable one. Much of the stock was undoubtedly pickled and not worth more than the prices obtained for it, still good stock had to suffer in consequence of the enormous quantity of poor truck that was thrown on the market. Where lies the remedy? Time and again this matter has been discussed. It seems that only by hard experience a useful lesson can be taught.

There is no doubt that much of the stock that was slaughtered could have been disposed of at fair prices in the three or four days preceding Christmas. The wholesale houses were then almost bare and the dealers could scarcely get enough material to fill orders. The shipper of pickled stock is certainly the one most to blame for the present state of affairs. If the commission dealer would take some measures and consign this truck at once

to the bargain counter and not let it come in competition with fresh stock much of the evil results would be done away with and the shipper of good stock would not have to suffer for the sins of the unscrupulous.

New Years trade, while it showed a great falling off from Christmas, was certainly up to expectations. Some of the retailers say they were very quiet, and it is certain that there were no large decorations, but a fair amount of material was sold in the form of loose boxes of flowers. Baskets or bouquets were very little called for. The demand was in much the same lines as at Christmas, though perhaps the demand for red and similar colors was less marked. Among roses Beauty of course stood at the head, ranging from $5 to $6 a dozen wholesale; some extra flowers are reported at $7.50. Meteor ranged from $10 to $12 a 100, but a few with extra long stems sold for $15. The larger teas averaged $8 to $10, smaller $4 to $6. On the whole it seems that prices generally went about 25% below Christmas. Carnations were not overstocked; such fine varieties as Daybreak, Edna Craig and Buttercup were $4 to $5; Tidal Wave and other deep pink or red were $3, and whites $2. Short stemmed carnations are unusually scarce.

In bulb stuff a few tulips are now in, yellow and red; they have been bringing about $4. Valley holds at $4 and $5 and was in good demand for New Years. Harrisii sold well too; it keeps at $12.50 and sells much in advance of callas. Paper white narcissus and Romans are still extremely plentiful; trumpet major has not made its appearance, except in some isolated cases. Violets sold admirably all through the holidays, and the demand keeps up. Consignments of violets from local growers continue small. Smilax is still a glut for the reason that there is absolutely no call for it; it has been a drug on the market all winter. The demand for common ferns has also been small this winter; probably the limited call for these greens is partly due to the very small amount of decorating done. There has been a very small amount of decorating around the holidays, excepting a few arrangements in which holly took a leading part.

Prices naturally dropped January 2, but it happened that there was rather a limited supply in the market on that day; some of the plants are now off crop and they had all been cut pretty close for a week or so. Brides, Niphetos and Perles keep quite plentiful, but not the colored sorts, which are the best sellers. Although New Years trade was quiet, it was better than expected, as this holiday has been dead to the florist for several years.

Christmas noon there was a wedding at the residence of Mr. J. C. Vaughan. The bride was Miss Florence L. Vaughan, a sister of Mr. Vaughan, and the groom was Mr. Carl Cropp.

Boston.

Cut flower trade has been generally satisfactory since Christmas. There has been but little sun and the production has not been heavy enough to overstock on anything except possibly white carnations. Lily of the valley, narcissus, Roman hyacinths, in fact anything white, have gone somewhat slowly, the main demand being for colors, which are none too plenty in either roses or carnations.

New Year's receives but little attention here as a holiday and the demand is nothing more than a good average winter trade would be. Prices on everything have dropped since Christmas, and indications are that they will rule lower in this market all season than ever before.

The cities of Cambridge and Newton have appropriated large sums of money and have extensive plans under consideration for the beautifying of their surroundings and the development of their park systems.

New York.

The unexpected happened on Christmas day and the demand for flowers at the last moment was a great surprise to all concerned. This healthy state of affairs lasted until the middle of the week, when it dropped off as suddenly as it came and trade was about as bad as it could be until New Years. This holiday is not what it used to be in New York. Every year sees it retire further into obscurity, and now it is of practically no account as a factor in the flower trade with any effect upon prices.

It is not only the common or abundant grades of flowers that are suffering now; American Beauties, violets and such goods that are supposed to be always salable when good are sold at less than one half of the prices of a year ago, and with difficulty even then. Violets, Grace Wilder carnations and Harrisii lilies find no takers and pile up mountains high in the wholesale establishments. However, there is a hope that the New Year's trade may take a turn similar to that of Christmas and that conditions may yet show an improvement.

The dark, muggy weather is having its effect on colored roses. There is no sunlight and artificial heat can not be put on, so that Mermets, Wattevilles, etc. have no life to their color. A box of Meteors shows a confused mixture of blue, black, scarlet and purple that would puzzle even an F. Schuyler Mathews to describe. Bridesmaid and Cusin alone of the small roses seem to hold their own in color. Many rose houses are standing still, and a majority of growers claim to be "off crop," so that with any life in trade prices ought to be good for the stock that is coming in. A number of growers complain that Mermet shows a tendency to throw much blind wood this season.

Alfred Dimmock sailed on steamer Umbria on Saturday, December 30. Robt. B. Young starts for California this week. J. N. May has been confined to his home for two weeks with a severe attack of the grip, but is now happily improving.

The annual prize bowling meeting of the Flatbush Bowling Club was held on the evening of December 28, at Bantel's alleys. About twenty gentlemen were present, including three or four invited guests. The Flatbush boys know how to enjoy themselves, and no more jolly and sociable a party could be found, from the youthful veteran, President Charles Zeller, down to the youngest member.

The scores made were not the highest on record, but the method adopted for the distribution of the premiums gave the owner of the lowest score an equal chance with all the rest to get the best prize. The only advantage to the best bowler was first choice of the row of mysterious looking packages on the table, which were packed up in such a manner as to disguise as much as possible the nature of their contents.

The selection and opening of these packages was attended with much merriment and many surprises were encountered. Decanters were won by those least in the habit of using such things, while articles useful only to those enjoying a life of double blessedness were sure to fall to the lot of the unmarried young man, and a toy horse became the property of the oldest man in the party. Eugene Dailledouze carried proudly home with him a prize which with ordinary care he can make good use of every day as long as he lives, and his brother Henry became the happy possessor of a piece of cheese strong enough to make his house burglar proof and to reduce rents in his immediate neighborhood. The annual supper, which took place after the distribution of the prizes, was a very pleasant affair. The president, Mr. Chas. Zeller, occupied the seat of honor. Much regret was expressed at the inability of Mr. P. B. Meissner to be present with his old associates, and that his health may continue to improve until he has fully recovered was the wish of every one present.

It is announced that Mr. W. A. Manda has severed his connection with the corporation of Pitcher & Manda.

Montreal.

As far as I have been able to ascertain the trade this year has been better by 25% than last year. The greatest improvement was in plants, the demand for which exceeded the supply. Of course anything in the way of plants in bloom sold, but palms, rubbers, ferns and such plants were more called for than on any former occasion. Good azaleas were much sought after and brought good prices. Lilacs and Harrisii lilies made their appearance here for the first time for Christmas and were quickly bought up; there were also a lot of good cyclamens which sold well. There were more Dutch hyacinths and tulips ready this year than usual. These were grown in pans and found a ready sale.

In cut flowers the trade called mostly for loose flowers; very few bouquets, some baskets, but less than in former years. Roses and violets as usual were in greatest demand, carnations following close, with Daybreak as the favorite. The present custom of cutting all carnations with long stems has caused that flower to become a formidable rival of the rose as an all-seasons and all-purposes flower.

On account of the dull weather and the unusual amount of snow during the past month the supply of home grown roses was short, but there being a surplus in some of our neighboring towns our dealers got all the stock they wanted without paying any customs duty. The supply of carnations, though not being equal to the demand, was of an exceptional high grade this year. The varieties showing up best are Daybreak, Silver Spray and Tidal Wave.

The supply of Romans was a little over the demand, also of paper whites, for which the demand seems to be falling off. A few cut tulips were offered, with but little demand; valley was scarce and but little called for. The supply of cut adiantum was very short. Smilax was abundant. One grower supplied splendid freesia cut with all the foliage, for which there was a ready sale. There was a fair supply of chrysanthemums, for which there was a fair demand at good prices.

Walter Wilshire had a nice lot of lilacs in pots for Christmas, also azaleas and cyclamens; his roses were good.

J. Bennett had a nice lot of good chrysanthemums in small pots, which sold

well. This gentleman says his trade was about 25% over last year, particularly in plants. He had a good demand for small palms and ferns.

C. Campbell as usual had a large general stock, his roses being very good and his trade about 25% better than last year.

J. S. Murray reports trade about as good as last year, a falling off in the demand for made up work and an increase in loose flowers and plants.

P. McKenna & Son had a nice lot of Harrisii lilies in 6-inch pots, three bulbs in each, which sold well; also a nice lot of freesia. Their carnations were very good, especially Daybreak. They report trade somewhat better than last year.

Wilshire Bros. did a good trade in plants; loose flowers in greatest demand, an improvement all round on last year.

A. Martin reports a good trade all round. He had a nice lot of azaleas, hyacinths and tulips in pans, which sold well.

As the writer had no chance to interview the rest of the florists, special mention cannot be made, but the same story would stand for all—a general improvement over last year.

Buffalo.

As I ventured to say last week trade was satisfactory at Christmas and has been quite up to the average at New Years for the past few years, but the latter date has for many years been nothing compared to Christmas. On the whole prices were equal to any year and no more kicking occurred, perhaps a little less. Plants were less in demand as holiday gifts at New Years than on the 25th. I don't know that any better way could be thought of to give you an idea of holiday trade than to quote the exact words of interviews with the several members of the trade and they are as follows:

W. J. Palmer, Jr., of the firm of W. J. P. & Son.—"We sold a big lot of flowers, got a big price and nobody grumbled; never handled so many violets in my life."

W. A. Adams, of Adams & Nolan.—"We did all we wanted to, my boy, and what made a holy terror of the rush was we had a lot of funeral work come piling in. Had to sleep in a bath house Saturday night; no time to go home."

S. A. Anderson.—"Had an awful big stock, thought I should be stuck but it all went; got a lot of orchids on spec. and they went; so busy I missed divine worship Sunday morning."

J. H. Rebstock.—"Am well satisfied; had an enormous stock and stayed there till it was sold. You bet we are going to have some fun on the snow; wait till Easter, I'll show you."

E. I. Mepsted, care of Wm. Scott.—"It was certainly a better trade than last year, bought flowers to my heart's content and sold them all even if it does make the old man tired; no, thank you, I'll take a glass of milk."

C. F. Christenson, of Delaware avenue.—"My dear boy, trade was all right; we got fine prices, disposed of all our rubbish, and what is better we have a mighty fine job on this week, the big swell Buffalo Club ball; that, my dear fellow, is the society event of the season; come back to the office, we have just time for one more."

Mr. Stuart.—"Best Christmas I ever had."

James Milley.—"We sold all we had and could have sold more if we had laid in a bigger stock of roses, carnations and violets."

Wm. Belsey.—"We did better than last year, and I think a good deal better; I saw no evidence in my trade of hard times; won't you come indoors a minute?"

Dennis O'Connell.—"Trade was out of sight; had a big run on orchids and roses; begorra, I'm satisfied."

Dan'l B. Long (commission merchant).—"Disposed of a great amount of stuff and most of it at prices which must be most satisfactory to the growers; wish it was Christmas week every week with me." W. S.

Toronto.

Christmas trade in this town has been fair, good, one might say, considering the times. There being considerably more florists' stores this year than last the trade was more divided up, but still the old established ones say that their receipts were nearly up to last year, and the new ones say they did a good business.

There must be a large increase in the number of buyers, for everyone says that individual buyers who spent, say $5 last year, only spent $2 or $3 this year. These facts seem to be pretty good proof that the total business done must have increased considerably, and this fact is a pretty good pointer that when good times come again the florist business will not be such a bad one after all. Waiting for the good times is where the pinch comes though.

Orchids showed up well in many windows. Manton Bros. sold many nice plants of Cypripedium insigne for presents. J. H. Dunlop had some fine spikes of Zygopetalum Mackayi. C. J. Tidy had a variety.

Pink carnations Daybreak and J. J. Harrison were the special favorites in carnations and sold easily for 75 cents a dozen.

Roses were dear and the retailer did not make much profit on them.

There appeared to be an abundant supply of everything. Holly did not go off in such large quantities as usual perhaps and there was some left over. A considerable quantity of evergreen wreathing also was left over.

The weather was fine and mild and could not have been better for delivering goods. The streets on Saturday night were crowded, everyone carrying a parcel or parcels.

At the last regular meeting of the Association Manton Bros. brought some very fine J. J. Harrison carnations; they seem to grow it to perfection. Mr. G. Hollis brought some blooms of a seedling white carnation of 1891 which showed exceptionally good qualities; his stock of it is for sale. E.

Washington.

The weather during Christmas week was such as one would have expected at Easter season and a late one at that. Up to Sunday night everything looked gloomy for a good business. Christmas morning it began to pick up a bit, by noon it was brisk and before the day closed all our florists were more than satisfied. While it was perhaps not quite up to last season, the demand went beyond expectations and a few were obliged to turn some customers away. Both growers and retailers are rejoicing.

Prices were about the same as last season, if anything a shade lower. The most of our retailers relied entirely or nearly so, on home grown stock. A number had been buying in New York up to within a few days of the holidays, they then withdrew their standing orders, lest they should be overstocked as all predicted a dull trade.

Each year marks an increasing demand for growing plants at Christmas season rather than cut flowers. The demand this season was largely for small flowering plants, chiefly azaleas, primulas, poinsettias, geraniums, narcissus and Roman hyacinths grown in pans, etc. There was a marked falling off in the demand for large palms, araucarias and large single specimens of any kind. The demand for bright colored flowers was very noticable.

The trade in holly and other Christmas greens is almost exclusively confined to the country people, principally colored, who bring their stock in from the surrounding country. They had a very good trade this season, but say it was not up to last year. Mistletoe was scarce and poor in quality yet it brought an excellent price.

Both growers and retailers all express themselves as being more than satisfied with the holiday trade.

C. LESLIE REYNOLDS.

Seasonable Hints.

New Years will have cleared you out of a good deal of stock either as plants sold or cut and you will have room now to expand what is left, which will much benefit some of it. The Begonia incarnata grandiflora which you have left after cutting for holiday trade will not pay to grow on for another later crop, so keep sufficient old plants that have not been cut down too closely for your supply of cuttings for next season. Don't put them down by the side of the path, but give them a moderately warm light place and you will get a lot of strong cuttings. Potting zonal geraniums from 2-inch to 3-inch should occupy a good bit of your time just now, and a few of the stronger growing kinds, such as the Bruant type, you might put at once into 4-inch. They will come in useful at Easter.

Easter is the next big event for the florist and you cannot get your crops in just right without constant watching, and, I may add, moving. Lilium Harrisii and longiflorum will want constant watching to "get there" at Easter, and most of them will want all the heat you can give them. Longiflorum will want more forcing than Harrisii as they are not potted as early and are not naturally as early to flower.

You can bring your azaleas in for that important date with a little manipulation. Remember azaleas will stand anything but freezing and if you see such early sorts as Mme. C. Vander Cruyssen or any other showy early flower you can retard them greatly. And such late sorts as the beautiful Emperor de Brazil will want a moderate heat of 50° at night. and be about right. After you have cut down your crop of Adiantum cuneatum is a good time to thoroughly clean them, and don't give too much water until the young growth begins, and put them at the coolest end of the house until they start. It does not pay to be cutting a few of the best fronds off the pots and leaving a lot of poor growth to turn brown. Try to clear off all the matured growth and bring another crop along in succession and then you will have fronds and a crop that will pay.

If you have not sown seeds of the following do so at once: Crozy canna, Centaurea gymnocarpa, cyclamen and smilax.

I am putting in the first crop of coleus cuttings from the plants propagated in

August. You can't wait and put them all in in March and April, and these cuttings besides making fine large plants give you a lot more cuttings later. Ivy geraniums that were propagated in September will now have a good cutting on them and will be all the better for a stop. Propagate ageratums now and throw the old plants away, the young ones will grow like weeds and you can get any quantity from them, and the old plants are a sad harbor for red spider. The same can be said of Salvia splendens, get young plants growing.

After you have cut your flowers of Cattleya Trianæ and Percivaliana and Lælia Arnoldiana and autumnalis, give the plants a rest by keeping them in a temperature of 55° to 60° at night and very little water for two or three months. Calanthe, which is a truly herbaceous orchid, and flowers at mid-winter, after the flowers are cut the pots should be laid on their side under a dry warm bench and can be allowed to get a good rest. They will show evidence of their wanting to grow again in April or May, when they should be shaken out and started growing again. They are essentially a terrestrial orchid and with good drainage and good rich compost will thrive in a pot as easily as a geranium. Their beautiful pink sprays of flowers are most useful at this season. WM. SCOTT.

Buffalo, January 1, 1894.

WHEN writing our advertisers please use one of your printed business letter heads or enclose your business card.

SITUATIONS, WANTS, FOR SALE.

SITUATION WANTED—As foreman; a practical grower of roses, carnations, violets, decorative and bedding plants, forcing of bulbs, making up etc. A life experience Good references. Address D N, 154 La Salle Ave., Chicago.

SITUATION WANTED—After January 15, by a practical florist and gardener. Age 29, German, single, of good character; commercial or private place; South preferred. State wages Address MAX MORITZ, box 389, Durango, Colo.

SITUATION WANTED—By young German florist, practical and sober; age 24, with 8 years' experience in growing roses, chrysanthemums and general cut flowers, also good bedding and ornamental plant grower. Can do design and decoration work. Can furnish first-class references. Address FRANK GOEBEL, 512 Hall St., Grand Rapids, Mich.

SITUATION WANTED—In general propagation and growing of all requisites pertaining to first-class plantsman, in commercial place, including propagation, and care of nurseries, ornamentals, roses, evergreens, shrubs, herbaceous plants, etc. Executive ability, experience, sober and industrious habits. Best recommendations. PRACTICAL, care Am. Florist.

WANTED—In Chicago, experienced lady florist. German. Good wages paid to right party. Address A B, care American Florist, Chicago.

WANTED—A first-class seedsman who can handle employes and turn out work. Fair salary, with advancement to the person who can fill the bill Address X Y Z, care American Florist.

WANTED—Good men to write on the subject: Relations of employer and employed. Give experience, references etc. Honest men need protection. In union is strength. Write English, German, or Swedish. Address C H, box 37, Forest Home, N. Y.

FOR SALE—$6,500 will purchase 12,000 square feet of glass, well stocked; 1 acre of land, and 8-room dwelling, in Chicago; or will rent greenhouses. Address H. S DIETRICH & CO., 90 La Salle St., Chicago.

FOR RENT CHEAP—Term of years; security required. Graperies, mushroom, hothouses; good order; grow anything. Trade established. Express passes doors, con. Phila., New York, Wash., Balto. Offer closes Jan., 1894. Box 2672, West Chester, Pa.

ROSES.

	Per 100	Per 1000
1560 Perle, 3-inch	$ 5.00	$40.00
1000 " 2½-inch	3.00	25.00
600 Bride, 2½-inch	3.00	25.00
1200 Mermet, 2½-inch	3.00	25.00
200 Hoste, 2½-inch	3.00	

BROWN & CANFIELD, Springfield, Ill.

Mention American Florist.

DOES IT PAY?

to wait till the last moment.

NO! Then order your

Bouquet Green, Cut Ferns, Sphagnum Moss, Xmas Trees, Holly, Festooning, and Xmas Green of all kinds. ▲ ▲ ▲ ▲

And do it early. Write for prices—low as the lowest. A 1 goods, and the only place in the WORLD where you can ALWAYS get them.

H. E. HARTFORD, 18 Chapman Place, BOSTON.



FANCY. DAGGER.

EVERGREEN CUT FERNS

ESPECIALLY FOR FLORISTS' USE.

$1.25 PER THOUSAND FERNS.

IN LOTS OF 5000 AND UPWARDS, $1.00 PER 1000. Ferns furnished the year round. Special attention given to supplying the Wholesale Trade.

L. B. BRAGUE. Hinsdale. Mass.

HEADQUARTERS FOR ROSES.

100,000 READY NOW.

ALL SORTS. BEST VARIETIES.

	Per 100	Per 1000
From 2-inch pots, our selection	$ 3.00	$30.00
From 3-inch pots, our selection	5 00	50 00
From 4-inch pots, our selection	12.00	110.00
Hybrid Perpetuals, from 2-inch pots, in 50 leading sorts.	4.00	40.00

Special Varieties at Special Rates.

Send your lists to be priced. Wholesale and Retail Catalogue ready and free to all.

We mention only a few leading sorts of Roses.

Bon Silene, Comtesse de Labarthe, Bride, Mermet, Etoile, Sombreuil, Dijon, Malmaisou, Clothilde Soupert, Eliza Fugier, Kuster, Niel, Hermosa, Meteor, Lamarque, La France, Guinoiseau, Sunset, Krueger, Perle, Niphetos, Solfaterre, and a hundred others. ADDRESS

NANZ & NEUNER,
Louisville, Ky.

Forcing Roses.

A stock of the best varieties always on hand.

M. A. HUNT, Terre Haute, Ind.

Hybrid Perpetual Roses,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

Don't Lose Heart.

PLANT FERRY'S SEEDS this year, and make up for lost time. Ferry's Seed Annual for 1894 will give you many valuable hints about what to raise and how to raise it. It contains information to be had from no other source. Free to all.

D. M. Ferry & Co.
Detroit, Mich.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

Wild Smilax, Pines and Palmettos

FOR DECORATIONS
AT LOW FIGURES.

Low freight rates by steamer to New York, Boston, Philadelphia and Baltimore.

A. C. OELSCHIG,
SAVANNAH, GA.



Write for Wholesale List.

MICHEL PLANT AND BULB CO.,
ST. LOUIS, MO.

Rooted Cuttings

COLEUS, 10 sorts, 60c. per 100
BY MAIL.

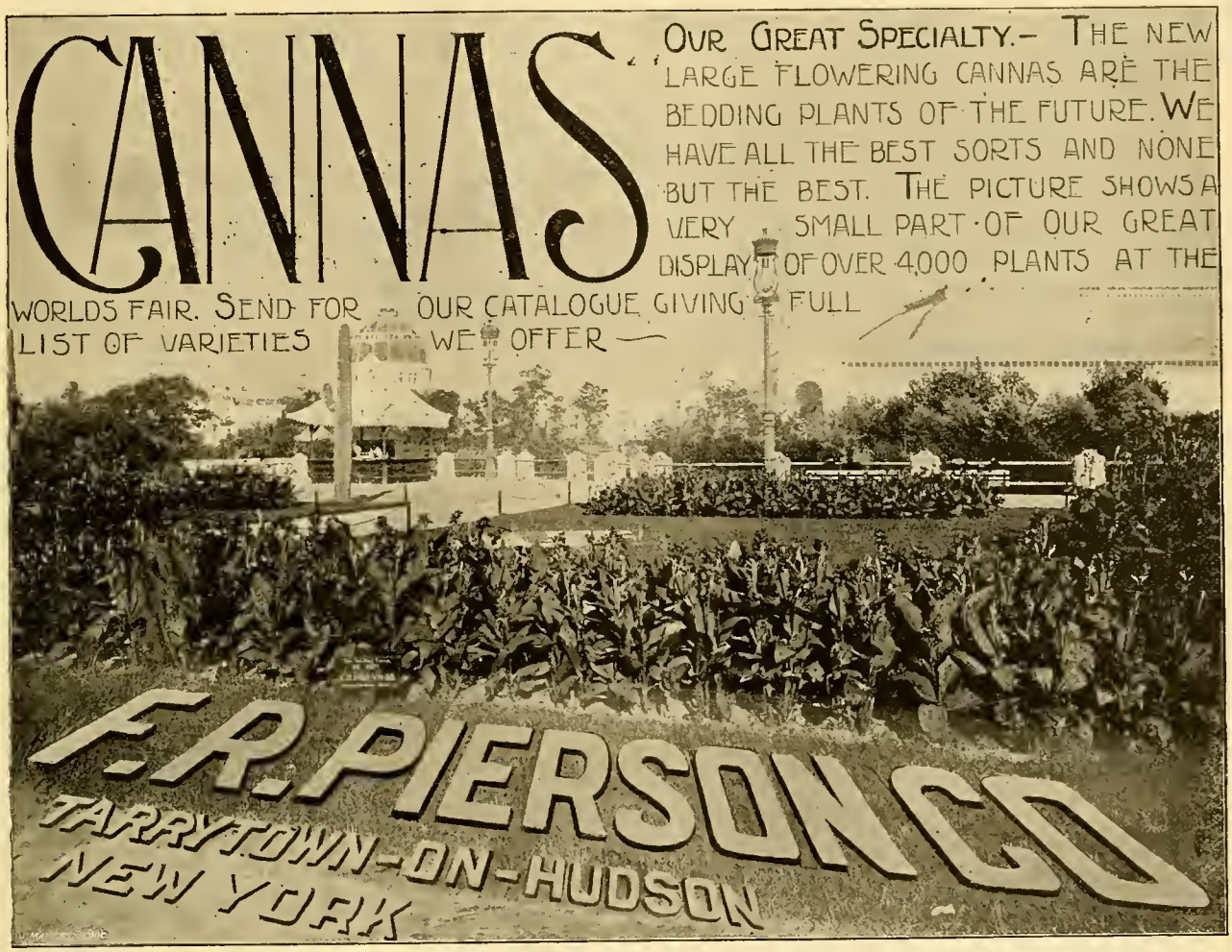
SAMPLE DOZEN, without names, mailed for 10 cts.

S. O. STREBY,
Lock Box 77,
UPPER SANDUSKY, OHIO.

Galax Leaves.

You cannot afford to be without them if you sell Cut Flowers and Decorate. Especially for Christmas. Big money in them. I sold 300,000 in 3 months last winter. $2.00 per 1000 by express. Sample 100 sent by mail on receipt of 50c.

LINCOLN I. NEFF, Florist,
4010 Butler St., PITTSBURG, PA
AGENT FOR HARLAN P. KELSEY.



ROOTED CUTTINGS. Per 100

Alternantheras, Versicolor, Rosea nana, Aurea nana, Tricolor and P. Major	$.50
Achyranthus of sorts	1.00
Coleus of sorts	.50
" best new and old	1.00
Parrots Feather, Fuchsias	1.00
Mexican Primroses, 3 kinds	1.00
Heliotrope	1.00
Fittonia, red veined, $2.00; silver veined	1.50

PLANTS.

Alternantheras, full of cuttings	3.00
Begonias, assorted; Lantanas, assorted	4.00
Fuchsias, ass't; Heliotrope, ass't. $3.00 and	4.00
Abutilons, assorted	4.00
Echeveria glauca $2.00 and	3.00
" Extensa globosa, 6 to 12 in. across 25 & 50c. ea.	
Achyranthus, assorted	3.00
Coleus, assorted. $2.00 and	3.00
Hibiscus, assorted	4.00
" Schizopetalus	6.00
Anthericum picturatum, per dozen, 75c.	

ROBT. S. BROWN & SONS,
Box 99. KANSAS CITY, MO.
Mention American Florist.

CYCLAMEN GIGANTEUM from best seed, strong plants, showing bloom, in 4 and 5-inch pots, $8, $10, $20, $30 and $50 per 100. Dozen at same rates. Assorted colors.

PRIMULA CHINENSIS, in variety of foliage and color, 4-inch pots, $8, $10 and $12 per 100. Dozen at same rates.

Promptly shipped at "FLORISTS" Express rates.
A. S. MacBEAN, Lakewood, N. J.

Asparagus plumosus nanus.
$15.00 per 100.
Strong plants from 4-inch pots. Cash with order.
ALEX. SCOTT,
Balto. Co., Lauraville, Md.

EXTRA CHOICE FLOWER SEEDS.
List free on application.
FRED. ROEMER, SEED GROWER,
QUEDLINBURG, GERMANY.

HOW TO GROW CUT FLOWERS.
A PRACTICAL TREATISE ON
THE CULTIVATION OF THE ROSE,
And Other Flowering Plants for **Cut Flowers**, sent to any address upon receipt of **$2.00.** **M. A. HUNT, Terre Haute, Ind.**

100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.
Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.
NO RUST OR MILDEW.
Packed right, and satisfaction guaranteed. Send for circular. . . .
We are the largest growers of Verbenas in the country. Our sales reaching last year 215,500. Our plants this year fully equal, if not surpass, any we have ever grown.
J. L. DILLON, Bloomsburg, Pa.

TRY **DREER'S GARDEN SEEDS,**
Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
HENRY A. DREER,
Philadelphia, Pa.

CLEMATIS.
I have choice lot of nice, well rooted, one year plants, very suitable for potting now; these will make fine strong plants by sales time, grown in cold house and treated same as H. P. and other roses, in variety, Jackmanni, Duchess Edinburg, Henryii, C. Lovelace, Fairy Queen, Lady Neville, Gem, P. Alexandra and others, $1.50 per doz.; $12 per 100. Two year in var. $3 per doz.; $20 per 100.
F. A. BALLER, Bloomington, Ill.
Mention American Florist.

200,000 Pansies.
The Jennings strain of large flowering and fancy pansies may still be had in any quantity wanted. Plants are field grown, and are fine and stocky. Finest mixed, by Express, $5.00 per 1000; 5000 $20.00; 10,000 $35.00. Small plants by mail, 60c. per 100.
Seed, pure white, yellow or mixed, $1.00 per trade pkt. of 2,500 seeds. The leading strain. The largest sales. Always satisfactory.
ADDRESS **E. B. JENNINGS,**
WHOLESALE PANSY GROWER,
Lock box 254. SOUTHPORT, CONN.

P. SEBIRE & SONS,
Nurserymen, USSY, Calvados, FRANCE.
A general assortment of Fruit Tree Stocks, such as Apple, Pear, Myrobolan Plum, Mahaleb and Mazzard Cherry, Angers Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, etc. The largest stock in the country. Prices very low. Packing secured. Catalogue free. Send for quotations before placing your order elsewhere. Agents for U. S. America and Canada.
C. C. ABEL & CO., P. O. Box 920, New York.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Catalogues Received.

Edward Swayne, Kennett Square, Pa., carnations; Nathan Smith & Son, Adrian, Mich., chrysanthemums; Herb & Wulle, Naples, Italy, seeds; Jos. F. Dickman, St. Louis, seeds; F. Barteldes & Co., Lawrence, Kans., seeds; Fancher Creek Nursery, Fresno, Cal., nursery stock and plants; W. Atlee Burpee & Co., Philadelphia, Pa., seeds and plants; Thos. Griswold & Co., So. Wethersfield, Conn., seeds; Oskar Knopff & Co., Erfurt, Germany, seeds; Dammann & Co., San Giovannia Teduccio, Italy, seeds; Goos & Koenemann, Nieder-Walluf (Rheingau), Germany, canna Koenigin Charlotte; Uberto Hillebrand, Pallanza, Italy, seeds, plants and bulbs; Sunset Seed and Plant Co., seeds, plants and nursery stock; H. Schubert, Town of Union, N. J., dried cycas leaves, designs, etc.; I. L. Pillsbury, Macomb, Ill., plants; E. G. Hill & Co., Richmond, Ind., chrysanthemums; W. R. Shelmire, Avondale, Pa., rooted cuttings,

St. Louis.

After the Christmas rush business has settled down apparently to its usual state. There is nothing much going on, but owing to a very short supply of stock, caused by a cold snap following the unusually warm weather, dealers have been kept busy getting enough to fill regular orders. Christmas trade was very much in the nature of a surprise party, the demand having exceeded the calculations of the retailers, and the result was satisfactory to them, the principal reason advanced by them being the reduced rate at which flowers were sold as compared with former seasons. Green stuff also developed unlooked for strength; several firms which usually have enough stock to carry them through reported being sold out early in the day.

The bowling teams have settled down to work and the second series of games is in progress. Team number 1, owing to regular attendance of members, is already opening a gap between itself and the others which it will be almost impossible to close.

In speaking with Mr. E. H. Michel regarding the auctions which the Michel Plant & Bulb Co. have held recently, he said the deduction to be drawn was that auctions paid; good stock brought good prices, but anything that was put up with the intention of sacrificing to get rid of it would be sacrificed with a vengeance.

Mr. Alex Waldbart, our well known florist, has entered suit against H. Clay Pierce for the sum of $267.10, balance due on account with interest at the rate of 6% from November 14, the same being balance of account for sodding and flowers furnished. R. F. T.

SPECIAL NOTICE.

If you are short of

Roses, Carnations, Romans, Valley, Orchids, Smilax, Asparagus,

or any flowers in the market, Telegraph or Telephone your orders to us, and have them properly filled with choice flowers, and properly packed and shipped on time.

NOT RESPONSIBLE FOR PACKAGES AFTER DELIVERED TO EXPRESS CO.

CORBREY & McKELLAR,

Phone Main 4508. **45 Lake Street, CHICAGO.**

The Holidays.

For Choice Decorations nothing can equal ASPARAGUS PLUMOSUS NANUS.

No advance in price. CUT STRINGS, 8 to 12 feet long, 50 cts.

Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.

W. H. ELLIOTT, Brighton, Mass.

CUT FLOWERS.

ROSES, standard varieties and novelties.

Carnations, all the new sorts in finest quality.

VIOLETS, MIGNONETTE AND VALLEY.

FIRST QUALITY STOCK. WHOLESALE ONLY.

THOS. YOUNG, JR.,
20 WEST 24TH ST., NEW YORK.

Cut Smilax

Largest and most reliable stock in America.

Satisfactory prices on application.

THE NATIONAL PLANT CO.,
Dayton, Ohio.

W. ELLISON,
WHOLESALE
Cut Flowers AND Florists' Supplies
1402 PINE STREET,
St. Louis, Mo.

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
WHOLESALE
FLORIST,
1122 PINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

Wholesale Florists

The La Roche & Stahl Flower Co. Limited.

N. E. CORNER
13th & Chestnut Sts.
PHILADELPHIA.

Mention American Florist

SAMUEL S. PENNOCK,
Wholesale Florist
REAR OF 42 S. 16th STREET,
Philadelphia, Pa.

H. L. SUNDERBRUCH,
Wholesale Florist
4TH AND WALNUT STREETS,
Cincinnati, O.

DAN'L B. LONG,
COMMISSION • FLORIST,
495 Washington St., BUFFALO, N. Y.
FORCING BULBS, FLORISTS' SUPPLIES, LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application.

REED & KELLER
MANUFACTURERS OF FLORISTS' WIRE DESIGNS.
122 W. 25TH ST. NEW YORK

E. H. HUNT,
WHOLESALE FLORIST

79 Lake Street, CHICAGO.

	Per 100
Perles, Niphetos, Gontier	$ 5.00@$ 6.00
Bride, Mermet, La France	6.00@ 8.00
Meteor	10.00
Carnations, long, white	2.00
" " colored	2.00@ 3.00
" fancy	3.00@ 4.00
" short	1.00
Violets	2.00
Callas, Harrisii	15.00
Romans, Paper White	2.00@ 3.00
Valley	5.00@ 6.00
Smilax	15.00
Adiantum	1.00
Ferns, common per 1000 $2.50.	.30
Chrysanthemums, common	2.00@ 4.00
Cycas leaves, preserved .75 cts. each	

Western Agent for the GREAT ANTIPEST.

FLINT KENNICOTT, President. FRED. W. H. SUNDMACHER, Sec'y and Treas.

Kennicott Bros. Co.
34 & 36 RANDOLPH STREET,
CHICAGO.

WHOLESALE CUT FLOWERS,
and FLORISTS' SUPPLIES.

WIRE WORK A SPECIALTY.

General Agents for Chicago and the Northwest of Kelsey's Beautiful New Southern Galax Leaves, $2.00 per 1000; 25 cents per 100.

A. L. RANDALL,
Wholesale Florist,
126 Dearborn St., CHICAGO.

Agent for finest grades Waxed and Tissue Papers.

J. B. DEAMUD & CO.
WHOLESALE CUT FLOWERS,
45 LAKE STREET,
IN CUT FLOWER EXCHANGE, CHICAGO.

REINBERG BROS.
WHOLESALE GROWERS OF
CUT FLOWERS
Roses, Carnations and Violets Specialties.
51 WABASH AVENUE,
Telephone 4937. CHICAGO.

WHOLESALE
FLORISTS,
JOBBERS IN . . .
. . FLORISTS' SUPPLIES,
FLORISTS' VASES.
METS,
BRIDES,
GONTIERS,
CARNATIONS,
ALWAYS ON HAND.
1 Music Hall Place,
BOSTON, MASS.
HORTICULTURAL AUCTIONEERS. . .

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St., BOSTON, MASS.

Wholesale Markets.

Cut Flowers.

NEW YORK, Jan. 1.

Roses, Gontier, Niphetos	2.00@ 4.00
" Perle, Cusin	2.00@ 6.00
" Watteville, Hoste	2.00@ 6.00
" Mermet, Bride	4.00@ 8.00
" Bridesmaid, La France	6.00@12.00
" Meteor	10.00@15.00
" Beauty	10.00@75.00
Carnations	.50@ 2.00
Violets	.75@ 2.00
Valley	4.00
Roman Hyacinths	.75@ 1.50
Mignonette	5.00@10.00
Harrisii	8.00@10.00
Smilax	5.00@10.00
Adiantum	1.00
Cattleyns	40.00
Cypripediums	12.50@15.00

BOSTON, Jan. 1.

Roses, Gontier, Niphetos	3.00@ 4.00
" Perle, Watteville	4.00@ 6.00
" Bride, Mermet	4.00@ 8.00
" Wootton, La France	4.00@ 8.00
" Meteor	10.00@15.00
" American Beauty	20.00@75.00
Carnations	1.00@ 2.00
Lily of the valley	4.00
Hyacinths	1.00@ 2.00
Violets	1.00@ 1.50
Harrisii, callas	12.00@15.00
Adiantum	1.00
Smilax	12.50
Asparagus	50.00

CHICAGO, Jan. 2.

Roses, Meteors	8.00@15.00
" Bride, Mermet, La France	6.00@10.00
" Perle, Niphetos, Gontier	4.00@ 7.00
" Beauty	25.00@40.00
Carnations, long white	2.00
" " colored	3.00
" " fancy	4.00
Violets	2.00
Harrisii, Callas	12.50
Romans, Narcissus	2.00@ 3.00
Tulips, yellow	4.00
Valley	5.00
Marguerites	1.00
Smilax	12.00@15.00
Asparagus	50.00

PHILADELPHIA, Jan. 1.

Roses, Perle, Gontier, Niphetos	6.00@ 8.00
" Cusin, Watteville	6.00@ 8.00
" Bride, Mermet, La France	8.00@10.00
" Kaiserin	10.00@12.00
" Belle, Beauty	30.00@50.00
Carnations, H. Keller	7.00
" Ophelia, Sweetbriar, Daybreak	3.00@ 4.00
" Edna Craig	5.00
" Good ordinary stock	2.00@ 2.50
Valley	3.00@ 4.00
Romans, Narcissus	2.00@ 4.00
Smilax	12.00@20.00
Adiantum	1.00@ 1.50
Violets single, per 100 bunches	4.00@ 5.00
" double	1.00@ 1.50
Mignonette	1.50@ 3.00
Asparagus	50.00@75.00
Harrisii lilies	12.00@15.00
Callas	6.00@ 8.00

BUFFALO, Jan. 1.

Roses, Beauties	35.00@50.00
" Mermet, Bride	8.00@10.00
" Bridesmaid	10.00@15.00
" Perle, Hoste, Cusin	6.00@ 8.00
" Meteor	10.00@20.00
" La France	12.00@15.00
" Gontier, Niphetos	6.00@ 8.00
Valley	5.00
Violets	1.50@ 2.50
Hyacinths, narcissus	3.00@ 4.00
Carnations, long	2.50
" Daybreak	3.50
" short	1.25
Smilax	15.00
Adiantum	1.50
Asparagus	50.00

GEORGE A. SUTHERLAND,
SUCCESSOR TO
PECK & SUTHERLAND,
Successors to WM. J. STEWART,
CUT FLOWERS
and Florists' Supplies,
WHOLESALE.
67 Bromfield St., BOSTON, MASS.

CUT SMILAX,
15 cts. per string till November 1st. Quality first-class. Special attention to orders by wire.
E. BONSALL & SON, 308 Garfield Ave., Salem, O.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
Wholesale Dealers in and Shippers of
Choice Flowers

OUR SPECIALTIES:
AMERICAN BEAUTIES,
METEORS.
BRIDESMAIDS.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST,
32 West 30th Street, NEW YORK.

Roses Shipped to all points. Price list on application.

VIOLETS.
The largest stock in the country, from the best growers. If you want first-class Violets for the Holidays, send to
JOHN YOUNG,
53 West 30th Street, NEW YORK.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS,
51 W. 30th St., NEW YORK.

JAMES HART,
WHOLESALE FLORIST,
117 W. 30TH ST., NEW YORK.
The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHRS,
WHOLESALE
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.
Established 1879.

MILLANG BROS.,
Wholesale Florists,
17 WEST 28TH STREET,
NEW YORK.
BRANCH: Cut Flower Exchange, 408 E. 34th Street.

MICHAEL A. HART,
Wholesale AND Commission Florist
113 WEST 30TH STREET,
. . . NEW YORK.
THE FINEST ROSES AND CARNATIONS.
Branch, at Cut Flower Exchange, 408 E. 34th St.

Edward C. Horan,
34 W. 29th Street, NEW YORK,
WHOLESALE FLORIST.
Careful Shipping to all parts of the country
Price list on application.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and treasurer, 114 Chambers street, New York. Next annual meeting second Tuesday in June, (will probably be held in Toronto.)

The Government Seed Shop.

The public journals are full of comments criticizing Secretary Morton's report recommending the abolishment of free distribution of ordinary kinds of garden seeds at the public expense.

As is known to most of our readers, the Secretary has taken this position, which is certainly the only position that any broad minded, patriotic citizen could take. He says "If there ever was a good reason for the original purchase of new and improved varieties of seeds for gratuitous distribution there is now certainly no valid reason for the purchase and distribution of ordinary seeds, bulbs and cuttings which are common in all the states and territories and easily obtainable by the people generally."

Now why the government should purchase and distribute year after year the ordinary varieties of turnips, cabbage, celery and other seeds which are common in all the states and territories and are obtainable at low prices by the people in general is certainly a very pertinent question for the Secretary to ask. Why should the government expend as it did $135,000 in 1892 for the purchase and distribution of enough common varieties of beans to plant 4,000 acres, of beets enough to plant 2,500 acres, of sweet corn enough to plant 7,800 acres? All of these including such heavy seeds as beans or corn were sent through the mail at the cost of another $100,000 or more to the Postoffice Department. Is there any better reason why the government should distribute these ordinary market kinds than that they should give away the ordinary necessaries of life—flour, sugar, cloth, hats or shoes?

We admit the possible wisdom of procuring and distributing rare and improved varieties of seeds, although we doubt if the enterprising seedsmen of the country would concede that any possible bureau established by the government and under its control could more thoroughly bring before the American public any novelties worthy of dissemination than they now do.

Representatives in Congress who have long used this means as a bait to their constituents will doubtless protest stoutly against the change. One of the former Secretaries of Agriculture once stated that in his opinion it was impossible to accomplish this reform because of the opposition in Congress, and Secretary Morton will surely do a work worthy of a whole term's service in his office if he brings about the accomplishment of what he has outlined. Doubtless a powerful lobby will be engaged by those financially interested in the maintenance of this bureau in its present condition. All who are receiving monies directly or indirectly are of course likely to make a strong attempt to retain the old order of things.

An article in the New York Morning Advertiser of December 18 states:

"The value of the products of the floriculturists, who are constantly stimulated by liberal distribution of choice seeds by the department, amounts to $25,000,000 per annum."

Such of our readers as are acquainted with the facts in the case will certainly deny that floriculture is stimulated (?) to the extent of even 25 cents per annum.

ELECTROTYPES of VEGETABLES, FLOWERS, ETC.
VILMORIN, ANDRIEUX & CO., Seed Growers, Paris.
Apply for Catalogues. NOVELTY SHEET NOW READY.

Complete Stock in New York
— WITH —
THEO. PABST & CO., 26 Barclay Street.



Is Different from Others.

It is intended to aid the planter in selecting the Seeds best adapted for his needs and conditions and in getting from them the best possible results. It is not, therefore, highly colored in either sense; and we have taken great care that nothing worthless be put in, or nothing worthy be left out. We invite a trial of our Seeds. We know them because we grow them. Every planter of Vegetables or Flowers ought to know about our three warrants; our cash discounts; and our gift of agricultural papers to purchasers of our Seeds. All of these are explained in the Catalogue, a copy of which can be yours for the asking.

J. J. H. GREGORY & SON. Marblehead, Mass.

150,000 PEARL TUBEROSES

Orders booked now for selected bulbs (4 to 6 inches in circumference) of above at $8.00 per 1000; $7.50 per 1000 in 5,000 lots.

SPIRÆA JAPONICA, - $3.75 per 100
GARDINER'S XX BERLIN LILY OF THE VALLEY PIPS, $20 per case of 2,500

English Mushroom Spawn.

Our fourth importation this season of above just received in splendid condition, $7.00 per 100 lbs.

JOHN GARDINER & CO.,
21 North 13th Street,
PHILADELPHIA, PA.

Z. De Forest Ely & Co.
WHOLESALE SEEDSMEN,
Growers AND Importers of Bulbs.
JOBBERS IN
FLORISTS' SUPPLIES.
1024 Market Street, PHILADELPHIA, PA.
Price lists to dealers on application.

SEEDS! PLANTS! BULBS!
Everything appertaining to the Farm and Garden of the best and choicest quality. PRICES RIGHT.
Catalogue on application.
WEEBER & DON.
114 CHAMBERS ST., NEW YORK CITY.

Ernst Reimschneider, Altona, Germany,
BERLIN LILY OF THE VALLEY PIPS
Extra selected quality, in cases of 3000 pips.
Now in COLD STORAGE WAREHOUSE. Also for importation on orders. SEEDS, Dried Flowers, Grasses, etc., and Spring Bulbs.
SOLE AGENTS
C. C. ABEL & CO., P. O. Box 920, NEW YORK.

When writing to any of the advertisers on this page please mention the American Florist.

FIFTY THOUSAND
PEARL TUBEROSES
F. O. B. NEW YORK.

We offer selected bulbs of above, from four to six inches in circumference, for present shipment, at $9.00 per 1000. Orders accepted subject to being unsold.

SWEET PEAS, California grown.
We are headquarters for California grown Sweet Peas, and parties desiring to contract for their requirements for season of 1894, will do well to write for prices.

SUNSET SEED & PLANT CO.
(SHERWOOD HALL NURSERY CO.)
427-9 Sansome St., *San Francisco, Cal.*

Hulsebosch Brothers,
OVERVEEN, HAARLEM, HOLLAND.

	Per 100	Per 1000
LILIUM SPECIOSUM ALBUM	$ 6.00	
" " ROSEUM	5.00	
" " RUBRUM	5.00	
SINGLE BEGONIAS, fine bulbs, new crop, finest strain, in 4 separate colors.	4.00	35.00
CONVALARIA MAJALIS, German pips.	1.00	8.00
TUBEROSES, Pearl and Tall, A1 (big) bulbs.	.90	7.50
LOW BUDDED ROSES, in sorts, Dutch Stock.	9.00	
English Stock.	11.00	

All other plants or shrubs can be ordered for March, '94 delivery.

HULSEBOSCH BROS.,
58 West Street, NEW YORK CITY.

Tuberose Bulbs.
Dwarf Pearl and Tall Double.
Extra select, sound stock, $1.25 per 100; $9.00 per 1000.
W. W. BARNARD & CO.
6 & 8 N. Clark Street, CHICAGO.

G. J. MOFFATT,
Manufacturer of
PAPER BAGS AND ENVELOPES
Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN, CONN.

When writing to any of the advertisers on this page please mention the American Florist.

The Best Carnation in the Market.

THE ADELAIDE KRESKEN,

Which was originated in 1891, and flowered in the same year, is conceded by all to be the prettiest Carnation ever grown. Strong grower, free from rust, is two feet high, stiff stem, good calyx, and the flower (of a beautiful rosy pink color) averaging three inches and over.

A VERY FREE BLOOMER. In addition to recovering the **Best Seedling Prizes** at Cincinnati, O., Club Certificate at Springfield, Mass., and Milwaukee, Wis., Hunt Prizes, Indianapolis, Ind., it has received certificates of merit at The American Florists' Society, St. Louis, Mo.; also the best vase of pinks at St. Louis, Mo., and Certificate of Merit at Toronto. The undersigned begs leave to submit the following exceedingly low prices for **Rooted Cuttings,** which will be ready March 1st, 1894:

$2.00 per Dozen; $10.00 per 100; $45.00 per 500; $80.00 per 1000.

Cash Must accompany all orders. Address all communications to

PETER HERR, Mount Healthy, Hamilton Co., O.

SWEETBRIER

Received 1st Premium for "best seedling of any color" at Phila., Nov. 7, '93. Color between Daybreak and Wilder.

Flowers brought $5.00 per 100 wholesale, at J. R. Freeman's, Washington, last winter.

"I like its color better than Daybreak."
EDWIN LONSDALE.

"Sweetbrier is all that can be desired."
W. A. MANDA.

Rooted cuttings, $10.00 per 100; $80.00 per 1000. Delivery to begin February 1, '94.

VIOLET LADY CAMPBELL.

ROOTED RUNNERS. $3.00 per 100; $25.00 per 1000. Send for price list.

EDW. SWAYNE,
KENNETT SQUARE, PA.

50,000 ROOTED CUTTINGS OF THE

Daybreak Carnation

will be ready for delivery by January 10th. Orders booked now. Satisfaction guaranteed.

Price, $2 00 per 100; $15.00 per 1000.

Terms strictly cash. Address

FRED SCHNEIDER, Wholesale Florist,
ATTICA, Wyoming Co., N. Y.

Carnations.

Field plants all sold.

Orders solicited for early delivery of ROOTED CUTTINGS in varieties suitable for summer blooming.

C. J. PENNOCK,
The Pines. KENNETT SQUARE, Chester Co., PA.

50,000 Carnations.

ROOTED CUTTING READY.
NO "RUST."

SEND FOR LIST. . . .

Wm. Swayne,
P. O. Box 226. KENNETT SQUARE, PA.

FOR IMMEDIATE DELIVERY

40,000 Carnation Cuttings,

of all the best varieties. Send for our list.

HANCOCK & SON, Grand Haven, Mich.

Verbenas

SPECIAL OFFER.

		Per 100	Per 1000
Unsurpassed Mammoths,	2¼-inch pots	$3.00	$25.00
" " "	rooted cuttings,	1.25	10.00
Genera collection, named,	" "	1.00	8.00
" " "	2¼-inch pots	2.50	20.00
H. P. Roses, dormant, strong		6 00	75.00
Ten " " "		6.00	50.00
Forcing "	3-inch pots, "	6.00	50.00

WOOD BROTHERS,
Fishkill, N. Y.

For Mildew on Roses

and **CARNATION RUST,**

USE FOSTITE.

Book on Fostite sent free.

Address **C. H. JOOSTEN,**
3 Coenties Slip, NEW YORK.

CARNATIONS.

Fourteen houses planted to carnations, all of which are under my own special care and supervision, so that I can guarantee all the cuttings sent out as first-class.

The varieties I grow are Daybreak, Lizzie McGowan, Silver Spray, Grace Darling, Aurora, Portia, Edna Craig, Fred. Dorner, J. R. Freeman, Golden Triumph, Annie Pixley.

Not a big list but a mighty good list. Come and see them grow, or write to me for prices, stating how many you will want of each variety and when they are to be delivered. I think we can make a deal that will be satisfactory to us both.

L. B. 496. **ALBERT M. HERR, LANCASTER, PA.**

ANNIE PIXLEY.

From a commercial point of view right now at Christmas I can say for this carnation that it is the finest I ever grew. With only ordinary culture I can cut stems twenty inches long, the flowers are large, the calyx has never burst, the plants are more than ordinarily strong and healthy and the color is just right, one of those pleasing shades of light pink that people can't help but buy.

Awful strong claims to make but if you will try it you will have to acknowledge they are none too strong.

Orders will be filled in rotation beginning now, at **$12 00 per 100; $100.00 per 1000.** 25 at 100 rates; 250 at 1000 rates. As next year is another year, I do not intend to ruin my stock by over propagation to fill orders. Be wise.

Terms cash before shipping, or C. O. D.

COME AND SEE

THE NEW AND BEAUTIFUL FANCY CARNATION

"HELEN KELLER"

(A very much improved "Chester Pride".) **GROWING AND BLOOMING.**

It is Healthy and Productive. In form, size, and elegance nothing in sight can approach it. It is the greatest novelty among Carnations up to date.

Wm. K. Harris said on seeing it growing: "You've got a good thing here. Put me down for 1000."
A. M. Herr said: "I would like 1000 of Helen Keller Carnation, when you are ready to send it out—if you can spare that many."

Two houses filled with this sterling new variety are worth going many miles to see: One at Summit, N. J.; the other at Wyndmoor near Chestnut Hill, Phila., where inspection is invited.

Orders booked now and filled strictly in rotation, commencing March 15, 1894. Strong Rooted Cuttings, $3.00 per dozen; $12.00 per 100; $90.00 per 1000.

EDWIN LONSDALE,
CHESTNUT HILL, PHILA.

JOHN N. MAY,
SUMMIT, N. J.

"COME AND SEE THE BOYS"

—AND—

THE YELLOW CARNATION BOUTON D'OR.

After growing this variety for the past three winters we are convinced that it is the best Yellow Carnation ever introduced.

WHAT WE CLAIM:—That it is decidedly a good, strong grower and free bloomer; color a beautiful yellow penciled with dark carmine. That it is of the best form and fully as large as Buttercup. That the calyx is perfect, the stem long and stiff, and the foliage possibly better than that of any other carnation.

PRICE, $2 per Doz.: $10 per 100; $75 per 1000. ROOTED CUTTINGS READY MARCH 1, 1894.

Orders filled in strict rotation. Come and see it grow and be convinced. Only one hour from New York City.

Dailledouze Bros., Flatbush, L. I., N. Y.

Rooted Cuttings. CARNATIONS. Rooted Cuttings.

ALL THE BEST VARIETIES IN CULTIVATION.

FINE STOCKS OF DAYBREAK, EDNA CRAIG AND CARTLEDGE.

NO DISEASE! NO RUST!

Catalogues ready January 1st, '94. Correspondence solicited.

Address **H. E. CHITTY, Paterson, N. J.**

Cheap! Cheaper! Cheapest!

10,000 GERANIUMS,

from 2¼-inch pots, very short, stocky plants; double and single; all labelled, 500 for $5.00. No order taken for less. February delivery. Cash with order. First in, first served.

JOE. N. LAWRENCE, Ottumwa, Iowa.

CYCLAMEN persicum giganteum 5-inch pots $10.00 per 100

GENISTAS, 2½-inch pots, strong plants, $6.00 per 100.

CARNATIONS, Dorner's Seedlings, $15 per 100 McGowan, Puritan, Wilder, and others, $8.00 per 100. Second size $6.00 per 100

Correspondence solicited.

Address **J. G. Burrow,**
FISHKILL, N. Y.

Cleveland.

Christmas trade was exceptionally good, and the weather was perfect for the delivering of plants and cut flowers, it not being necessary to wrap anything, which was a great saving of time. There is no doubt that the volume of business done was fully up to former years, notwithstanding the cry of "hard times." Prices were about the same as last year for selected stock, but small and poorer flowers sold for less. Selected roses brought the following prices: Beauties (4 and 5 foot stem), $18 per dozen, second quality $9 to $12 per dozen; Bridesmaid, $5; Brides, $4; Mermets, Watteville and Cusin, $3. Carnations, 50 to 75 cents, and $1 for selected Daybreak. Violets, $4 per 100. Colored carnations were in greatest demand and twice the amount could have been sold.

Ferneries and palms sold better than ever before, in fact the sales of the former more than doubled those of any previous year. All the florists were worked hard all day Sunday in order to get out their work for the next day. Christmas coming on a Monday is perhaps a blessing in disguise, as one can work on their orders on Sunday and not be interrupted so often by customers.

Florist Beaumont has moved from the Cyclorama Block to 99 Euclid avenue, where he has a very neat store. Now the three principal florists of the city—Beaumont, Eadie and Gasser—are next door to each other, with but one other store between them. It is to be hoped they will dwell together in unity and peace.

Wamelink Bros. had a most beautiful window for Christmas, the centerpiece being a massive cross of holly.

L. F. D.

Siebrecht & Wadley,

ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.

Palms,

ORCHIDS,

Roses,

and New Plants.

FRESH DRACAENA CANES NOW READY.

ORCHIDS.

The Finest Stock in the World.

SANDER'S,

ST. ALBANS,

ENGLAND.

Thirty minutes from London.

Our Mr. A. Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 206 Greenwich Street, New York City.

When writing mention the AMERICAN FLORIST.

FRESH IMPORTED ORCHIDS.

Cattleya Gaskelliana,

5 to 7 Bulbs, $.75 each.
7 to 12 Bulbs, 1.25 each.
Larger plants, $2.00 to $5.00 each.

I. FORSTERMAN,

Newtown, N. Y.

VERBENAS, stock plants	$2 50 per 100
HYDRANGEAS, Easter forcing stock,	
3½ inch pots	10 00 per 100
" strong	25 to 35 cts.
CYCLAMENS	6 to 10 cts.
REX BEGONIAS, 3 inch	6 cts.
SWORD FERNS, 3 inch	8 cts.
GREVILLEA ROBUSTA, fine plants,	15 cts

MOOREA & COLE, BATTLE CREEK, MICH.



WHY do so many Canna Growers say they have a Yellow Canna "As good as Florence Vaughan?"

Robert Craig, Chairman of Committee of Awards in Floriculture at World's Fair, says, Dec. 6, 1893: "Florence Vaughan has proved to be all that was claimed for it; it is still far superior to any Yellow Canna in commerce."

VAUGHAN'S SEED STORE,

New York. CHICAGO.

Do Your Grapes Rot?

Pears blight, crack or spot? Are your Apples, Plums, and Cherries imperfect? Powell's

COPPERDINE

Is a sure preventive. It is guaranteed to stop all Fungus Diseases; prevents Rust on Carnations and Black Spots on Roses.

For sale by all Seedsmen, 50c, a quart, $1.50 per gallon. Used largely diluted. Special prices in large quantities to Florists and Nurserymen. *Send for circular.* Powell's Mildew Mixture prevents Mildew on Flowers and Fruits, and Rust on Oats,

POWELL'S COPPERDINE

W. S. POWELL & CO., Baltimore, Md., U. S. A.

HOWARD'S Royal Splendor VERBENA SEED.

New Crop, Home-grown, Honest, Reliable.

Selected with great care from plants producing the largest trusses, finest substance of petals, with most brilliant and desirable colors.

EVIDENCE OF QUALITY. Editor Wm. Falconer in GARDENING:

"On Oct. 24 we received a box containing six bunches of blossoms of Verbenas from A. B. Howard, Belchertown, Mass. The flowers were very beautiful, and represented over fifty distinct shades of color; the trusses were large and the petals of fine substance. We had seeds of this strain from Mr. Howard and raised a number of plants from them last spring and the plants have been in bloom all summer and are in excellent flower still (Oct. 25), and they are a beautiful and multi-colored assortment."

C. H. Willard, Oswego Falls, N. Y., says: "I tried your Royal Splendor Verbenas last year and never had as many nice plants or such beautiful flowers from a package of seed, though I have tried all the leading seedsmen. The colors were gorgeous, and such a variety!"

Choice mixed colors, per trade pkt. 50c; ¼ oz. $1.00; per oz. $4.00.

A. B. HOWARD, Seed Grower and Florist, BELCHERTOWN, MASS.

Mention American Florist.

TO FLORISTS AND SEEDSMEN:

Water Lilies

are in the front rank of choice **Floral Novelties**, and you cannot afford to omit them from your catalogue for 1894. Before closing, write me for trade prices. My collection, including several new and choice varieties was awarded **Six Medals** at the World's Fair, the highest number of awards for aquatics.

WM. TRICKER, Dongan Hills, N. Y.

VERBENAS, MAMMOTH, perfectly clean, strong plants, $2 per 100. Transplanted Cuttings, $1.00 per 100. Rooted Cuttings, $6.00 per 1000. All to color. Cash.

W. H. WOODRUFF, Florist, Westfield, N. J.

Sphagnum Moss.

650. per bale in car lots; 75c. per bale in less than car lots. F. O. B. Mather. Cash to accompany small orders; usual terms on large orders. Good sized bales and moss of good quality.

G. A. MARVIN, Mather, Wis.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

THE ASSOCIATION FLORA,

BOSKOOP, HOLLAND.

NOW ON HAND IN NEW YORK:

CLEMATIS in sorts, 3 years	per 100 $25.00
STUARTIA JAPONICA	" 4.00
DIELYTRA SPECTABILIS	" 4.00

Lilium speciosum, Paeonias Rhododendrons, Azaleas H. P. Roses, in best varieties, per 100 $9.00: Abel Carriere, Alfred Colomb, Anna Alexieff, A. de Diesbach, B. Rothschild, Fisher Holmes, Gen. Jack, La France, Mme. G. Luizet, Mme. Plantier, Magna Charta, Paul Neyron, P. C. de Rohan, Perle des Blanches, Ulrich Brunner and others. Catalogue on application.

P. OUWERKERK,

206 Cambridge Ave., JERSEY CITY, N. J.

Mention American Florist.

Headquarters for CHRYSANTHEMUMS.

The main and essential thing is to get healthy stock. Stock must be prepared by open air culture a year prior to taking the suckers. All our stock is thus treated, and for the season of '94 we can give to all our customers young plants with just the same healthy vigor as those that won the Premiums at the shows. We will send you healthy, vigorous plants, but to properly prepare our stock we cannot afford to offer it in competition and at the low price that house-grown and box-grown plants **are** offered. It pays to get the best.

Very **many people** have asked for our list of the winning 48 at Chicago which was shown in the excellent photo-engraving in the FLORIST. They were as follows: *Abraham Lincoln, Lagoon, Elegant, Beauty of Richmond, Mrs. Joseph Thompson* (pure white). *Mrs. P. W. Smith, Robert McInnes, Mrs. Wm. Trelease, Mrs. Craige Lippincott, The Queen, H. E. Widener, Joey Hill, Flora Hill, Mlle. Therese Rey, Mrs. C. Harmon Payne, Madame Ed. Rey, Madame Isaacs, Secretary Farson, Ada LeRoy, C. B. Whitnall, C. H. McCormick, Etoile de Lyon, Eda Prass, Ed. Molyneaux, Harry Balsley, Roslyn, Andes, Mt. Whitney, Mrs. Wm. Coupland, Mrs. J. W. Crouch, Niveus, Viviand-Morel, Octave Mirbeau, Century, Mrs. Jerome Jones, Mrs. Maria Simpson, G. W. Childs, Mabel Simpkins, Judge Hoitt, Elenore Sievers, Louise Sievers, Beauty Poitevine* (pink), *Maud Dean, Pres. Smith, Mrs. F. L. Ames, Mrs. E. W. Clark, Minnie Wanamaker, Challenge and Eugene Dailledouze.*

The above will win in any entry, if properly grown. We offer the above plants, one of a kind, including the two **prize winners Dailledouze** and **Challenge** for

$6.00; 100, two of a kind, $10.00.

There never was a finer collection of select varieties than is now offered by E. G. Hill & Co., at Richmond, Ind. Prices never so low. You will want good commercial varieties for benching. Well, we have them: *Queen, Niveus, Lippincott, Balsley, Newett,* and all *true, tried* and tested sorts. Prices within the reach of all.

The unprecedented demand for Challenge, Beau Ideal, Mrs. E. G. Hill and Dailledouze makes it necessary that you should have these, if you would **win** the coming autumn. We will send you for $6 our five **new** varieties and Major Bonnaffon, Mrs. J. G. Ils, Marie Louise, Pitcher & Manda (P. & M.), Laredo, Achilles, and Mutual Friend; the 12, cream of the year's novelties, for $6.00.

New Geraniums, New Carnations, New Roses, in fact everything valuable in our line.

E. G. HILL & CO.,
Richmond, Ind.

IN THE FRONT RANK!
NEW WHITE CHRYSANTHEMUM
"MUTUAL FRIEND"

It is sure to be a prize winner and a leading variety for '94.

FIRST PRIZE and CERTIFICATE of MERIT MASS. HORT. SOCIETY, '93.

Orders booked now for March delivery, 50c. each; $4.00 per dozen. At these prices all should try it. We know it will please. Send for descriptive circular.

MANN BROS., Randolph, Mass.

New Chrysanthemum, MRS. J. GEO. ILS,
A CALIFORNIA SEEDLING.

Flowers sent from San Francisco to the Chicago Show awarded a MEDAL.

A grand white, of remarkable substance, size and depth of flower. See Illustration in AMERICAN FLORIST of November 16th. The very vigorous habit, and our large stock of this novelty, enables us to assure the trade of good plants, and to guarantee safe arrival. To be sent out the 1st of March, 1894, at the following prices to the trade:

75 cents each; $7.50 per 12 plants; $14 per 25 plants; $25 per 50 plants; $40 per 100.

ORDERS BOOKED NOW BY

JOHN H. SIEVERS, 25 Post St., SAN FRANCISCO, CAL.

Chrysanthemums.
STOCK PLANTS, 15 Cts. EACH.

Ivory,
Mrs. J. G. Whilldin,
Beacon,
Geo. W. Childs,
A. Ladenburg,
Golden Gate,
E. G. Hill,
L. Canning,
Autumn Glow,
J. C. Vaughan,
Mrs. Senator Hearst,
Russell,
Mabel Glenn,
Mrs. Hicks Arnold,
Mrs. Georgie Coles,
Patrick Barry,
Elaine,
King's Daughter,
Dr. H. D. Hull,
Mrs. Gov. Fifer,
Tuxedo,
Mrs. J. D. Elsele,
V. H. Halleck,
Gloriosum,
Mrs. C. D. Avery.

J. C. VAUGHAN,
NEW YORK. CHICAGO.

COLEUS.
A large stock, in 75 varieties, including the very newest kinds.

ROOTED CUTTINGS, in 30 to 40 varieties, at $6.50 per 1000 by express; in 20 varieties, at $1.00 per 100 by mail.
Golden Bedder (true), at $10.00 per 1000; **Verschaffeltii, Golden Verschaffeltii, Mrs. I. D. Haight** and other yellows at $8.00 a 1000. **NEW KINDS**, including some of the most handsome ever offered for sale, in 10 varieties, at $2.00 per 100 by mail.
STOCK PLANTS, ordinary kinds at $3.00 per 100; Verschaffeltii and yellows, at $4.00 per 100.
Cash with Order. Safe delivery guaranteed.

CARNATIONS.
ROOTED CUTTINGS of new and leading kinds.

We make a Specialty of **BUTTERCUP** and **STANLEY**, of which we have a large stock, $5.00 per 100; $45.00 per 1000. Plants all in prime condition, and an inspection solicited.

Send for circular of both **Coleus and Carnations.**

W. R. Shelmire,
. . . AVONDALE, PA.

PALMS.
150,000 of all the leading varieties.

FERNS.
50,000 of leading varieties.

Address **GEORGE WITTBOLD,**
1708 N. Halsted St., CHICAGO.
Mention American Florist.

BARGAINS,
GOOD PLANTS, and ready to ship NOW.

	Per 100
Geraniums, best bedders, strong, 2-inch,	$ 2.00
" La Favorite, best double white, 2-in.	2.00
" Mme Salleroi, very stocky, 2-inch	1.50
" Rose Scented, 2-inch	2.00
" Bronze, strong, 2-inch	3.00
Coleus, splendid assortment, 2 in. $12.50 per 1000.	1.50
" Golden Bedder (alone), strong, 2-inch	2.00
Heliotropes, 2-inch	3.00
Fuchsias, good assortment, 2-inch,	3.00
Farleyense Fern plants, 3-inch, 25c. each.	
Cannas Mme. Crozy, dry bulbs, $1.00 per dozen.	

I have the following in **ROOTED CUTTINGS**, ready to ship any day.

Geraniums, best bedders, 5 to 20 varieties	$ 1.25
" La Favorite, best double white	1.25
" Rose Scented	1.25
" Mme. Salleroi	1.00
Coleus, about 20 splendid varieties in mixture	.50
" Golden Bedder (when ordered alone)	.75
Double Sweet Alyssum	.50
Heliotropes, best purple varieties	1.00
Verbenas, best varieties	.75
Begonia Metallica	2.00
Carnation Portia	1.00
" Lizzie McGowan	1.00
" Puritan	1.25
" Nellie Lewis	1.50
" Fred. Dorner	1.25
" Grace Wilder	1.00
" Aurora	1.50
" Anna Webb	1.00

N. S. GRIFFITH, Independence, Mo.
Independence is well located for shipping, being 8 miles East of Kansas City, Mo.

GERANIUMS.
At least 40,000 in flats, at $15.00 per 1000
At least 20,000 in 2½-inch pots . . . 20.00 per 1000
A few thousand Coleus in 2½-inch pots, ... 20.00 per 1000
A few thousand Double White Petunias, 2½-inch pots, at . 2.50 per 100
Ageratum, blue and white . . 2.00 per 100
At these prices the selection of sorts to remain with us.
The above are in fine condition.
Cash with the order.

J. E. FELTHOUSEN,
370 Van Vranken Avenue, SCHENECTADY, N. Y.

HYDRANGEA,
THOMAS HOGG,
3 and 4-inch pots, $4.00 and $6.00 per 100.

BRAUER & RICHTER,
McCONNELSVILLE, OHIO.

ROOTED CUTTINGS
GOOD ONES.

Verbenas, 23 varieties	90c. per 100; $8.00 per 1000
Heliotrope, 7 varieties	per doz. 20 cts
Fuchsias, 12 varieties	" 20 cts.
Cigar Plant and Lopezia	" 20 cts.
Giant Alyssum and Marguerite Daisy	" 20 cts.
Manettia Vine, Mex. Primrose & Sultana	" 25 cts.
Red, White & Blue Plant (Cuphea Llavæ)	" 30 cts.

Chrysanthemums, 20c. Coleus, 12c. Postage 1c. a doz.
Send for catalogue. **I. L. PILLSBURY, Macomb, Ill.**

Baltimore.

This was a market man's Christmas sure enough, and they were the men that reaped the harvest. No doubt much of the complaining done by store men was due to the great display of plants and flowers at the markets, where the pleasant weather tempted thousands of purchasers. As it is a popular idea that market stuff is cheap, the hard times and mild weather co-operated to bring about such a Christmas market as has not been seen in years. The weather has been very warm indeed for December, the thermometer getting up to 70° one day this week, and very little below freezing at night for two weeks.

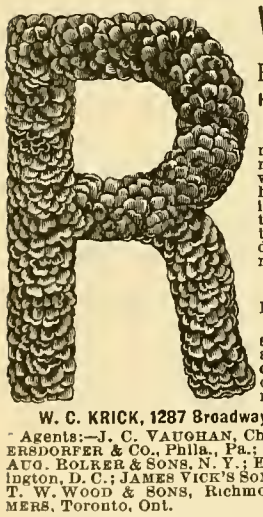
In store circles trade was pronounced very slightly improved during the week, and there it will probably stand until severe weather stops market competition. Violets are plentiful at $1 to $1.25 a hundred. Roses are coming in more freely, Perles 6 to 8, La France 10 to 12, Gontiers 6 to 8. Roman hyacinths are not in such a glut as they were, though still plentiful. On the whole the supply is and has been equal to the demand.

The store windows have presented a very pretty sight, the full supply enabling the proprietors to decorate them very freely with flowers. Orchids appeared in many of them, Mr. Jas. Pentland showing two enormous Cypripedium insigne covered with bloom.

Now comes the tug for Easter and when well over the strain of the holidays we can begin to speculate upon the probabilities of the next big salesday; if it too proves a market man's day, coming as early as it does the store men will have to go to standing at stalls in the future.

Mr. R. J. Halliday is still improving.

MACK.



W. C. KRICK'S
PATENT
Florists' Letters, Etc.
Highest Award wherever exhibited.

These Letters are made of the best immortelles, wired on wood or metal frames having holes drilled in them to insert toothpicks, by which to fasten them in the design. All infringements prosecuted.

2-inch Letters, $3 00 per 100. Postage, 15c. per 100.

Before purchasing send for free sample and Catalogue and compare with any other letter in the market.

W. C. KRICK, 1287 Broadway, BROOKLYN, N. Y.

Agents:—J. C. VAUGHAN, Chicago, Ill.; H. BAYERSDORFER & CO., Phila., Pa.; N. STEFFENS, N. Y.; AUG. ROLKER & SONS, N. Y.; ED. S. SCHMID, Washington, D. C.; JAMES VICK'S SONS, Rochester N. Y.; T. W. WOOD & SONS, Richmond, Va.; J. A. SIMMERS, Toronto, Ont.

BOSTON FLORIST LETTER CO.,
13 Green Street, BOSTON, MASS.
Address all correspondence to 1 Music Hall Place.
Manufacture THE BEST LETTERS IN THE MARKET.
Sizes 1½-inch and 2-inch, $2.00 per 100. Patent fastener with each letter.
With orders for 500 letters we give away a nicely stained and varnished box. See cut in next week's American Florist.
Our letter is handled by all the wholesalers in Boston.
AGENTS: A. Rolker & Sons, New York; Marschuetz & Co., 25 N. 4th Street, Philadelphia, Pa.; F. E. McAllister, 22 Dey St., N. Y.; Ernst Kaufmann & Co., 113 N. 4th St., Philadelphia, Pa.; H. Bayersdorfer & Co., Philadelphia, Pa.; A. D. Perry & Co., 33 Warren St., Syracuse, N. Y.; A. C. Kendal, 115 Ontario St., Cleveland, O.; E. H. Hunt, 79 Lake St., Chicago; Wisconsin Flower Exchange, 131 Mason St., Milkwaukee, Wis.; H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.; T. W. Wood & Sons, 6th and Marshall Sts. Richmond, Va.; Jas. Vick's Sons, Rochester, N. Y.; Dan'l B. Long, Buffalo, N. Y.; C. A. Kuehn, St. Louis, Mo.; C. F. Huntington & Co., Indianapolis, Ind; Z. De Forest Ely & Co., 1024 Market St., Philadelphia, Pa; Portland Seed Co., 171 2nd St., Portland, Oregon.
J. A. Simmers, Toronto, Ont., Agent for Canada.

* * * "Of course, we could have this work "done here at the local printing shop, but I think "**if you do the work we will more "than get back the money,** as "there is something about the work "done at the Mount Pleasant Printery that really attracts attention, "and **pulls in orders.**"

This extract from a letter just received is worth attention. If **YOUR** catalogue needs this "**something**" that "**pulls in orders,**" write about it to **J. HORACE McFARLAND CO., Harrisburg, Pa.**

AFTER CHRISTMAS, WHAT?

Plenty of trade if you only carry the right goods.

STOCK UP NOW
— WITH —
BASKETS

for the Winter Trade. We are Manufacturers and carry a large supply, and Novelties are constantly being added. . . .

Don't forget our Special Low Prices on Prime Cape Flowers, Immortelles and Metal Goods.

SEND FOR CATALOGUE.

H. BAYERSDORFER & CO.,
56 N. 4th St.,
PHILADELPHIA, PA.
☞ WHOLESALE ONLY. . . .
Mention American Florist

MARSCHUETZ & CO.,
Florists' Supplies,
23 & 25 N. 4th St., PHILADELPHIA, PA.
Send for Catalogue.

HUNTINGTON SEED CO.
Florists' : Supplies,
66 E. WASHINGTON ST.,
INDIANAPOLIS, IND.
Standard Flower Pots, Dried Grasses, Fancy Baskets Metal Designs. Trade Catalogue mailed free.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

Supplies of all Kinds, such as Immortelles, Cape Flowers, paper pressed Hartford and Maidenhair Ferns, Wheat Sheaves, Flower Baskets, Pot Holders, Plant Stands, Fern Dishes, etc., etc.; all quoted **in our beautifully and richly illustrated new Trade List** mailed free. Also

Metal Designs, the best winter cemetery decoration, in rich assortment of tasteful designs: Wreaths, Crosses, Anchors, Hearts, etc., in green or white foliage.

Cycas Leaves, (Sago Palm), **natural prepared,** equal to fresh cut in appearance, according to size at 40c., 45c., 50c., 60c. and 75c. each.

Flower Seeds in the best and choicest strains for florists' use.

Our new 1894 Catalogue is ready and mailed; if it did not reach you, send for a copy. Address

August Rölker & Sons,
136 & 138 W. 24th St., P. O. Station E. **New York.**



Florists' Pins
Glass Heads, in Black or White.

PRICES:
1, 1½, 2, 2½, 3, 3½, 4 inches,
50c, 75c, $1.00, $1.25, $1.50, $1.75, $2.00 per 1000

For Sale by
August Rolker & Sons, New York.
Wm. Elliott & Sons, New York.
H. Bayersdorfer & Co., Philadelphia.
N. F. McCarthy & Co., Boston.
E. H. Hunt, Chicago.
J. C. Vaughan, Chicago.
Huntington Seed Co., Indianapolis, Ind.
W. Ellison, St. Louis.
E. W. Crook, San Francisco.
J. A. Simmers, Toronto, Ont.
Edw. Mullin, Kingston, Ont.

AUG. F. BRABANT, Manufacturer,
54 Warren Street, NEW YORK.
Mention American Florist.

Medal Awarded
at World's Columbian Exposition to
ERNST KAUFMANN & CO.,
113 N. 4th St., Philadelphia, Pa.
FOR
METALLIC DESIGNS, WHEAT SHEAVES, CELLULOID BASKETS AND POT COVERS, and all Florists' Supplies.
Mention American Florist.

Japan Importation For April Delivery.

Auratum, Lancifolium, Longiflorum, and other **LILIES.**

CHRYSANTHEMUMS, BAMBOOS, CAMELLIAS, ASPIDISTRAS, ETC., ETC.

NOW is the time to prepare for Spring trade. *First quality stock. Low prices. Arriving just as trade in Spring opens* is a combination of circumstances which we have arranged for, calculating to save money and time for grower and dealer. If you can use any of this stock to advantage, no matter how small the amount, it will pay you to write us.

Our **new Plant Tub** is a **MONEY SAVER.** If any one issuing a catalogue has not yet received electro and price list, please telegraph us or write at once. We don't wish to withhold such a good thing from anyone. We also have a *Dandelion Puller* that many like; it's cheap and sells well.

WE HAVE TWO LARGE LATANIA BORBONICA, AND TWO SEAFORTHIA ELEGANS TO DISPOSE OF. THEY ARE A BARGAIN FOR SOME ONE. WILL SEND PHOTOGRAPH AND FULL PARTICULARS ON APPLICATION.

WE WANT A PERFECT SPECIMEN OF STANDARD ORANGE TREE IN FRUIT. ANYONE WHO KNOWS OF SUCH A PLANT, PLEASE ADVISE US PROMPTLY.

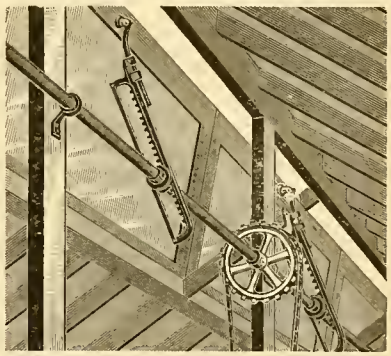
We have made arrangements to supply our trade with stock for **ponds**—Nymphæas, Lotus, etc. If you are interested in this line, please write us.

Cut Flowers and all Florist stock at Wholesale.

WISCONSIN FLOWER EXCHANGE,
MILWAUKEE, WIS.

SEE HERE
BROTHER
FLORIST!

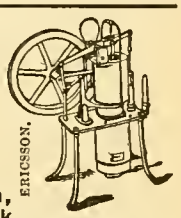
Aren't you tired going through your houses two or three times a day year after year and lifting your ventilating sash one at a time and propping them up with sticks or pots, with a chance of having sash blown off and broken glass to pay for? If you are



We have got just the thing you need, the **NEWEST** and **BEST** thing out. "The New Departure" for **about half** the cost of the old style. Send for Descriptive Catalogue to

J. D. CARMODY, Evansville, Ind.

WATER
For Your GREEN HOUSE, ROSE HOUSE, NURSERY,
Conservatory, Lawn, House, Garden, Stock or any other purpose.
Send for Illustrated Catalogue
OF THE
DE LAMATER-RIDER AND DE LAMATER-ERICSSON
PUMPING ENGINE.



HOT-AIR PUMPING ENGINE.

Their operation is so simple and safe that a child can run them. They will pump water from shallow streams or any kind of well. They can be arranged for any kind of fuel. Capacity 1,500 to 30,000 gallons of water a day, according to size.



The De Lamater Iron Works,
87 South Fifth Avenue,
NEW YORK, N. Y.

CUTS!



WOOD ENGRAVING,
PHOTO-ENGRAVING,
WAX ENGRAVING,
ZINC ETCHING,
HALF-TONE,
DESIGNING.

MANZ & CO.,
183 Monroe Street, CHICAGO. ENGRAVERS

Send orders for . . .
CLEAR CYPRESS
Greenhouse Material
from bottom of gutter up.
Correspondence solicited. Estimates cheerfully furnished.
LYMAN FELHEIM, ERIE, PA.

Heating Pipes.

How many feet of 4-inch pipe will be required to keep a greenhouse 17x100 and 9 feet high at a temperature of 60° in zero weather? BEGINNER.

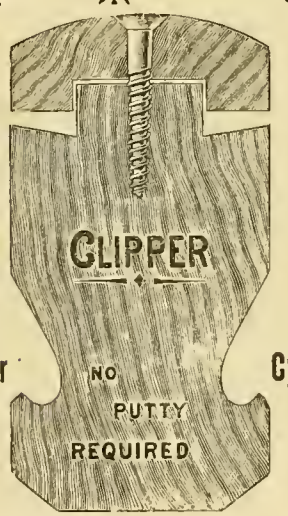
To determine the number of feet of 4-inch pipe it will require to maintain a temperature of 60° in a greenhouse, the outside temperature being at zero, the following formula will be found correct: Take the number of surface feet of glass exposure and add to same one-tenth of the number of surface feet of wall exposure, if of other material than glass, and divide the result by 2¾, which will give the number of lineal feet of 4-inch pipe required. L. PIERSON,
Sec'y Lord & Burnham Co.

WHEN SENDING us newspapers containing items you wish us to note please do not fail to distinctly mark the item so it can be easily found, as we can not spare the time to hunt through the mass of papers sent us for unmarked items.

THE AMERICAN FLORIST and *Gardening* together to one address for $1.75. Send orders to the American Florist Co.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

LOCKLAND LUMBER CO.



MATERIAL FOR
GREENHOUSES.
Send for Circulars and Testimonials.
Address **LOCKLAND, O.**
Mention American Florist.

Standard Flower Pots.
$10,000 WORTH IN STOCK,
which we wish to dispose of within the next **60 days** (Dec. 12, 1893), **25%** off list below will be given for cash with order.

Price List.			
2 -inch,	Per 1000 $3.25	7-inch,	Per 100 $ 3.50
2¼-inch,	" 3.50	8-inch,	" 5.00
2½-inch,	" 4.00	9-inch,	" 7.50
3 -inch,	" 5.00	10-inch,	" 10.00
3½-inch,	" 7.25	11-inch,	" 15.00
4 -inch,	" 9.00	12-inch,	" 20.00
5 -inch,	" 13.80	14-inch,	" 40.00
6 -inch,	" 22.00	16-inch,	" 75.00

HILFINGER BROS. POTTERY,
FORT EDWARD, N. Y.
August Rolker & Sons, 136 & 138 W. 24th St., New York City, Agents for New York and vicinity.

"Standard" Flower Pots.
As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address
The Whilldin Potterv Company,
BRANCH WAREHOUSES: 713, 715, 717 & 719 Wharton St., Philadelphia, Pa.
Randolph Ave. and Union St., Jersey City, N. J.
Jackson Ave. and Pearson St., Long Island City, L. I.

STANDARD FLOWER POTS
Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.
A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.
We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.
Send for price list and samples and we know you will give us an order.
SYRACUSE POTTERY CO. OFFICE: 403 North Salina Street, SYRACUSE, N. Y.

STANDARD FLOWER POTS.
OLD RELIABLE MAKE OF
ELVERSON, SHERWOOD & BARKER.
Write for Catalogue and Price List.
PITTSBURGH CLAY MFG. CO. New Brighton, Pa.

STANDARD FLOWER POTS
Our new **Pottery,** new **Machinery,** the very **best Clay** in the **Country,** and our new **Patent Kilns,** all combined, make the **best Standard Pot in the market.** Send for price list.
PARMENTER MF'G COMPANY,
GEORGE MESSINGER, Manager. East Brookfield, Mass.

D. H. ROBERTS,
159 and 161 S. Fifth Avenue, - NEW YORK,
NATURAL GAS MADE GLASS,
FOR ROSE HOUSES, CONSERVATORIES, ETC., ETC.



Pat. 1882, '85, '86, '88, '90, '91.
FOR WATER, AIR, STEAM, ACIDS, OILS, LIQUORS, GAS, SUCTION,
And for any and every purpose for which a hose can be applied.
Sizes, ⅛-inch to 42 inches diameter.
The making, vending or use of any Serviceable Armored Wire Bound Hose not of our manufacture is an infringement on one or more of our Patents. The rights secured to us render each individual dealer or user responsible for such unlawful use with all the consequences thereof. For prices and discounts address WATERBURY RUBBER CO., Sole Mf'rs and Owners of all the *Sphincter Grip Armored Hose Patents,* 49 Warren Street, New York.
J. C. VAUGHAN, Agent, CHICAGO.

BOXES. BOXES. BOXES.
Three-Piece Wood Mailing Box.
The neatest and strongest box on the market. Send 15 cts. in stamps for sample nest and price list. I also make Cut Flower and Express Boxes.
W. E. SMITH,
Successor to SMITH & SMITH,
Hardin County. KENTON, OHIO.

FLORAL DESIGNS
The Cut Flower Worker's Friend. Fine book of 160 pages. Send **$3.50** for it, to
J. HORACE McFARLAND, Harrisburg, Pa.

FLORISTS' HOSE,
Made by E. W. Holt, member of the Society of American Florists.
Goodyear Rubber Store,
2 W. 14TH ST. NEW YORK.

Please mention the American Florist every time you write any of the advertisers on this page.

LITTLE'S ANTIPEST.

— A —

Valuable Discovery of the 19th Century.

SILVER MEDAL AWARDED

— BY THE —

CALIFORNIA STATE FAIR OF 1890.

This preparation is a sure destroyer ot the **Scale, Wooly Aphis** and **Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure** and **Cheap.** No fruit grower or florist should be without it.

Send for Circulars and Price List.

R. W. CARMAN, General Agent,
291 AMITY STREET,
FLUSHING, Queens, Co., N. Y.

Increase Your Business

by fostering an interest in plants and flowers among the people in your vicinity. You can best do this by getting subscribers to

GARDENING . . .

which tells people how to get the most satisfaction out of their gardens, and stimulates them to enlarge and extend their gardening operations.

$1.00 A YEAR is the subscription price of this paper, which is issued twice a month, is handsomely and truthfully illustrated, is thoroughly practical, absolutely free from wind and gush and grinds no axes for anyone.

SPECIAL LOW RATE to florists who will act as agents. We want an agent in every city and town in America. Write for terms now to

THE GARDENING CO.
Monon Building, CHICAGO.

THE CHAMPION Automatic Ventilator.

The cheapest, easiest to operate, and by far the **best machine** in the market. Don't buy a Ventilator until you have seen my illustrated descriptive circular, which will be sent you free, giving prices, etc. Also **Champion Soil Pulverizer and Sifter.**

Address, **E. E. WOLF,**
Box 114. SPRINGFIELD, O.

Mention American Florist.

THE PERFECT DRAINAGE

BENCH TILE

For circulars, etc., address

W. P. Wight, Upland Green Houses,
Send your business card. MADISON, N. J.

YOU CAN SAVE MONEY BY PURCHASING, AND GLASS BY USING

Hamilton's Patent Sash Lifter.

The best thing of the kind ever invented for greenhouse use. Send for description and price list.

BAY STATE HARDWARE CO.,
272 Freeport Street, BOSTON, MASS.

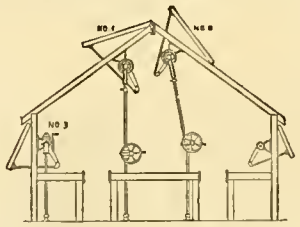
GLASS. ROCK BOTTOM PRICES Send for Estimate. Satisfaction Guaranteed.
REED GLASS CO.,
65 Warren St., and 46, 48 & 50 College Place, New York City.

VICTORY! VICTORY! VICTORY!

The only Certificate of Merit awarded for ventilating apparatus at the St. Louis Convention was to the

POPULAR STANDARD VENTILATING MACHINE

The florist's friend in working and prices.



No repairs for 5 years. no chains to break as is the result with others.

Opens Sash uniform on 100 foot houses. A new device.

Send for Catalogue and Estimates.

E. HIPPARD, Youngstown, Ohio.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO.

NATURAL GAS MADE GLASS,

FOR GREENHOUSES.

Write for latest prices.

FRENCH GLASS

For CONSERVATORIES, ROSE HOUSES, Etc. Etc.

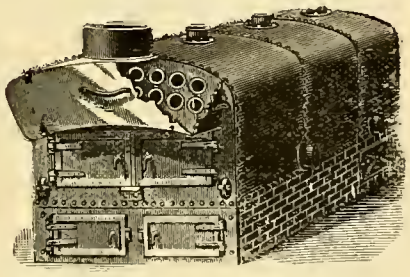
VANHORNE, GRIFFEN & CO.,

Importers of PLATE and WINDOW GLASS. Manufacturers of BENT GLASS and FRENCH MIRRORS.

131-133-135-137 FRANKLIN STREET, NEW YORK.

Note—Imported Glass is used in the best grade of Greenhouse building
Mention American Florist.

KROESCHELL BROS.
IMPROVED
Greenhouse Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

Mention American Florist.

EVANS' IMPROVED
CHALLENGE VENTILATING APPARATUS

Write for Illustrated Catalogue.
QUAKER CITY MACHINE WORKS, Richmond, Ind.



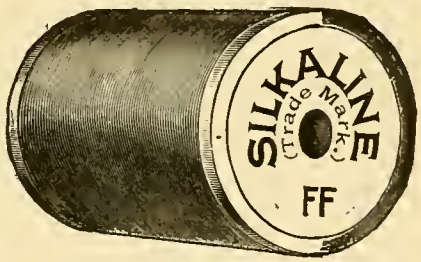
GREENHOUSE HEATING
AND VENTILATING.
Superior Hot Water Boilers.
JOHN A. SCOLLAY,
74 & 76 Myrtle Ave., Brooklyn, N.Y.
☞ Send for Catalogue.

MAIL LOCK THE DOOR BEFORE THE HORSE IS STOLEN. *DO IT NOW.*

JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

STRING SMILAX

And other Trailing Plants with



JOHN C. MEYER & CO.,
13 Otis St, (off Summer), BOSTON, MASS.
For sale by all leading Florists' Supply Houses.

J. N. STRUCK & BRO.

Manufacturers of

• CYPRESS •
Greenhouse Material,

LOUISVILLE, KY.

GURNEY Hot-Water Heaters FOR Greenhouses.

Send for a copy of our book "How best to heat our houses."

GURNEY HOT-WATER HEATER CO.
163 FRANKLIN ST., BOSTON.

Branch Office: 59 Wabash Avenue, Chicago, Illinois.
Selling Agencies: Johnson & Co., 71 John St., New York City. J. C. F. Trachsel, 246 Arch St., Philadelphia

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Index to Advertisers.

Abel C C & Co.....501 504
Adv. Rates, etc.....502
Baller F A.....501
Barnard W W & Co.....504
Bayersdorfer H & Co.....508
Bay State Hdw Co.....511
Bonsall Jos E & Son.....503
Boston Letter Co.....508
Brahant Aug F.....508
Brague L B.....500
Brauer & Richter.....507
Brown R S & Sons.....501
Brown & Canfield.....500
Burns & Raynor.....503
Burrow J G.....505
Carman R W.....511
Carmody J D.....509
Chitty H E.....505
Corbrey & McKellar...502
Dalliedouze Bros.....505
Deamud J B & Co.....503
De Lamater Iron Wks.509
Dillon J L.....501
Dreer H A.....501
Elliott W H.....502
Ellison Wm.....502
Ely Z De Forest & Co..504
Feilhelm Lyman.....509
Felthousen J E.....507
Ferry D M & Co.....500
Forstermann I.....506
Gardening Co The.....511
Gardiner John & Co....504
Goodyear Rubber Store.....510
Gregory J J H & Son..504
Griffith N S.....507
Gurney Heater Co.....511
Hall Ass'n.....511
Hancock & Son.....505
Hart James.....503
Hart Michael A.....503
Hart & Crouse.....512
Hartford H E.....500
Herb Peter.....505
Herr Albert M.....505
Hews A H & Co.....510
Hilfinger Bros.....510
Hill E G & Co.....507
Hippard E.....511
Hitchings & Co.....512
Hooker H M Co.....511
Horan Edw C.....503
Howard A B.....506
Hulsebosch Bros.....504
Hunt E H.....503
Hunt M A.....500 501
Hunter Frank D.....503
Huntington Seed Co...508
Jennings E B.....501
Joosten C H.....505
Kaufmann Ernst & Co.508
Kennicott Bros Co.....503
Krick W C.....508
Kroeschell Bros.....511
Kuehn C A.....502
La Roche & Stahl.....502
Lawrence Joe N.....505
Lockland Lumber Co...510
Long Dan'l B.....502
Lonsdale Edwin.....505
Lord & Burnham Co...512
McCarthy N F & Co....503
McCrea & Cole.....506
McFarland J H.....510
McFarland J H Co.....508
MacBean A S.....501
Mann Bros.....507
Manz J & Co.....509
Marschuetz & Co.....508
Marvin G A.....506
May John N.....505
Meyer John C & Co....511
Michel Plant & Bulb Co.....500
Millang Bros.....503
Moffatt G J.....504
Moninger Jno C.....512
Nanz & Neuner.....500
National Plant Co.....502
Neff L I.....500
Oelschig A C.....500
Ouwerkerk P.....506
Pabst Theo & Co.....504
Parmenter Mfg Co.....510
Pennock C J.....505
Pennock Sam'l S.....502
Pierson F R Co.....501
Pillsbury I L.....507
Pittsburg Clay Mfg Co.510
Powell W S & Co.....506
Quaker City Mach Co..511
Randall A L.....503
Reed Glass Co.....511
Reed & Keller.....502
Reinberg Bros.....503
Reimschneider Ernst..504
Roberts D H.....510
Roehrs Theo.....503
Roemer Fred.....501
Rolker A & Sons.....508
Sander & Co.....506
Schneider Fred.....505
Scollay John A.....511
Scott Alex.....501
Sebire P & Sons.....501
Shelmire W R.....507
Sheridan W F.....503
Siebrecht & Wadley....506
Sievers John H.....507
Situations, wants.....500
Smith W E.....510
Spooner Wm H.....500
Streby S O.....500
Struck J N & Bro.....511
Sunderbruch H L.....502
Sunset Seed & Plant Co504
Sutherland Geo A.....503
Swayne Edward.....505
Swayne Wm.....505
Syracuse Pottery Co...510
Tricker Wm.....506
Van Horne Griffen & Co.....511
Vaughan J C.....506 507
Waterbury Rubber Co.510
Weathered's Sons T W.512
Weeber & Don.....504
Welch Bros.....503
Whilldin Pot Co.....510
Wight W P.....511
Wisconsin Flower Ex..509
Wittbold George.....507
Wolf E E.....511
Wood Bros.....505
Woodruff W B.....506
Young John.....503
Young Thos Jr.....502

WORCESTER, MASS.—Frank E. Day, florist, has received notice from the firm of W. Atlee Burpee & Co., seed growers, of Philadelphia, Pa., that he had been awarded first prize of $50 in the competition for the first prize for the three largest and most perfect specimens of "Burpee's Defiance Pansies," and enclosed was a check for $50.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

CYPRESS GREENHOUSE MATERIAL

CLEAR

CY

SASH

BARS

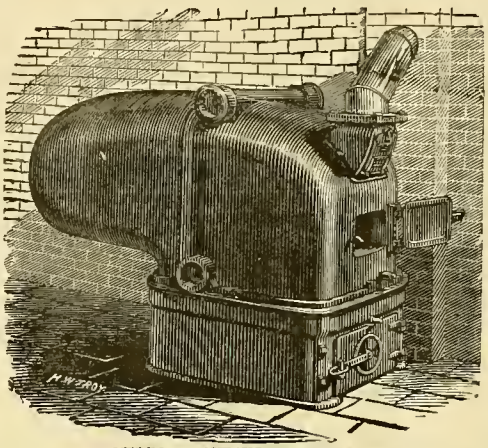
HOT BED

VENTILATING SASH

GoodelHH 15 Dec 93
Mass Agri Col

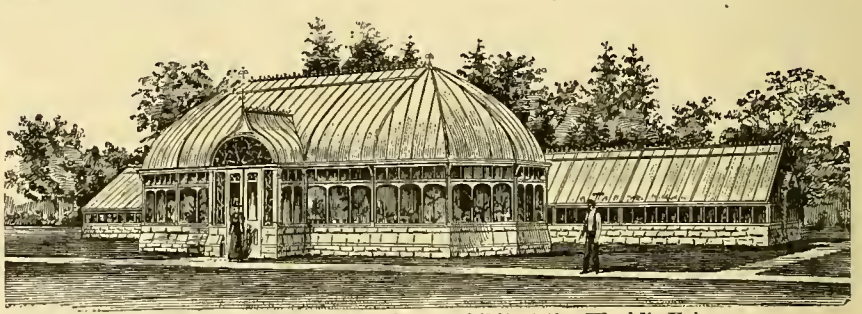
JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

GREENHOUSE HEATING AND VENTILATING
Horticultural Architecture and Building.



HITCHINGS & CO.
Established 1844.
233 Mercer St., New York.
FIVE PATTERNS OF BOILERS.
NINTEEN SIZES.
Perfect Sash Raising Apparatus.
Rosehouses, Greenhouses, Etc., of Iron Frame Construction, Erected complete, or the Structural Iron Work shipped ready for erection.
Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Top
SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE

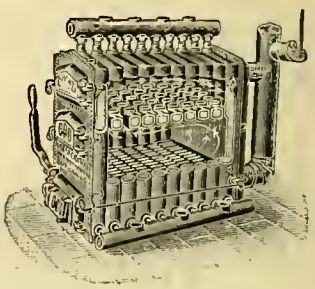
LORD & BURNHAM CO.
Horticultural Architects and Builders,
STEAM AND HOT WATER HEATING ENGINEERS.
Plans and estimates furnished on application.



Front view of a portion of our exhibit at the World's Fair.
. . . SEND FOUR CENTS POSTAGE FOR ILLUSTRATED CATALOGUE. . . .
LORD & BURNHAM CO., Irvington-on-Hudson, N. Y.

ROYAL HEATERS

THE RIGHT KIND of a BOILER for a GREENHOUSE.



HART & CROUSE,
UTICA, N. Y.

THOS. W. WEATHERED'S SONS,
INCORPORATED.
Horticultural Architects and Hot Water Engineers
Send for Catalogue, enclosing 4 cents in stamps.
No. 244 Canal St., NEW YORK CITY.

THE AMERICAN FLORIST

A WEEKLY JOURNAL FOR THE TRADE

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. IX. **CHICAGO AND NEW YORK, JANUARY 11, 1894.** **No. 293**

THE AMERICAN FLORIST

Copyright 1894, by American Florist Company. Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.
322 Dearborn Street, Chicago.

Subscription, $1.00 a year. To Europe, $2.00.

Address all communications to

AMERICAN FLORIST COMPANY,
P. O. Drawer 164, CHICAGO.

Eastern Office: 67 Bromfield St., Boston.

SOCIETY OF AMERICAN FLORISTS.

J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. Tenth annual meeting at Atlantic City, N. J., August, 1894.

CONTENTS.

Carnations--Notes 513
—Carnation rust 513
—Chester County Carnation Society. 514
—American Carnation Society 514
—Portia and Lady Emma 514
—Carnation Lady Emma 514
—Correction 514
Displays for effect at exhibitions (2 illus). . . 514
Exhibition management 514
Euphorbia poinsettia 515
Forcing asters and sweet peas 515
Seasonable hints 516
New York 516
Chicago 517
Philadelphia 518
Boston 518
Buffalo 519
St. Louis 519
Washington 519
Toronto 519
News notes 520
Catalogues received 522
Obituary—Avery Gallup 522
The seed trade 524
Ferns and smilax 526
Lady Campbell violet 526
Syracuse, N. Y 528
Denver 528
Worcester, Mass 530

KANSAS CITY, MO.—Mr. G. E. Probst has sold his interest in the Probst Bros. Floral Co. and has started in business on his own account at West Plains, Mo.

SAVANNAH, GA.—Christmas trade was about 50% larger than last year. Retail prices about as usual at the season. Supply was equal to demand. Quality superior owing to favorable weather. Increased call for decorative plants, especially palms.

KANSAS CITY, MO.—Christmas trade shows a decrease of about 10% from last year. Retail prices not quite so good. Supply not equal to demand. Everything was sold by noon of Christmas day and had lots of calls later that couldn't meet. Quality was better all round. Roses seemed to have the call. Mixed flowers sold after roses were gone. New Years trade was better than last year.



Carnation Notes.

Has Christmas taught us anything? I think it has, the first and most important one of which is that the supply is fast catching up to the demand, and is in serious danger of getting ahead of it. If you have been thinking of putting up another lot of houses next summer right now is a good time to put on your thinking cap and do a little real hard thinking. Will it pay to double up on your place from the present outlook of things? It certainly does not look that way now, for if the Christmas trade once becomes an ordinary every day affair then I don't see where we growers come in.

We also notice in looking over the reports that all secondary stock was a drug in the market. This should and will teach us to grow only the very best of varieties and grow them to perfection, there is no use in denying the fact that the flowers of the future must be superior to those that we used to be able to sell. How it was in other places I do not know, but I noticed in this little country town of ours that about the only thing that counted was a good large flower with a good long stem, and poor flowers were not wanted at all. We have educated the people up to a high standard and the only thing left is to fill the demand for that class of flowers, and the grower who has four or five houses of good flowers will be better off than the one who has twice that many with commoner ones.

I have heard a few growers talking over their Christmas returns and speak of retrenching their expenses by discharging some help. This is a serious mistake, for if there was none too much help on the place before there will be nothing gained by reducing the force now when everything points toward the necessity of extra labor and care to be in the market with your stuff.

Now is a very good time to revise your list of varieties and get rid of those that do not pay, but do not be too hasty, as it sometimes happens that a variety has through some cause or another not turned out as you expected and yet is too good to discard with one failure. As an instance of this I know that there are a number of growers disappointed with Edna Craig, yet it is certainly a fine carnation and with a little care in selecting the stock will make a standard sort that will not soon be replaced. I have cut some blooms of this variety that were almost worthy of the name they bear. There are of course some streaked ones in the house, but by being careful not to propagate from those I thiuk in another season I will have them in good shape. It is not always the variety that is at fault, it is often ourselves.

One thing I have had demonstrated to my own satisfaction, and that is that you can handle carnations better on benches to get your crop in at a stated time than you can in solid beds, but by disbudding and high culture the flowers from the solid beds will be the best every time, a few varieties excepted. I have two houses to Fred Dorner, one benched and the other in solid beds. Those on the bench yielded a fine crop of flowers for Christmas, while those in the solid beds have a fine crop of buds on, but as they will not stand quite as much forcing without injury to the plants the result is that they will come in when not wanted so badly.

Another Christmas item that is becoming almost a chestnut but is of vital importance to the cut flower trade is the storing of flowers for a week or more before the time they are wanted. This class of stuff is always in disfavor, and if customers get it and it goes to pieces for them almost at once they will either fight shy of that dealer or even hesitate about buying at all another season.

A. M. HERR.

Carnation Rust.

I notice Mr. Herr's remarks on the carnation rust, and also his invitation to those who know of a possible cure to make known the same.

During the past two years we have been much troubled with the rust on all kinds except Portia. Daybreak has been as badly affected as any other, and to remedy the same sulphide of potassium has been used, also the ammonia and lime formulas of the Bordeaux mixtures, all without benefit to the plants but with various other results. As a final resort the preparation known as fir tree oil was tried last winter and it has completely checked the progress of the rust, the pinks have grown out of it entirely and are producing fine crops. We use it at the strength recommended for mildew, applying it with the syringe while the mixture is still warm. The only objection to fir tree oil is its cost, which would be considerable if used on a large scale, it does not injure the most delicate shoots or roots if applied as directed on the bottles.

I notice also in the notes of your correspondent "L," of Philadelphia, that when speaking of violets he states that "the claim for this new variety is that it has so far been free from disease." Whether this was claimed or not by the distributor last year I do not know, but I do know that he has never had disease on his

plants except when once some Marie Louise were planted in the same plot. These last speedily went out of existence and the Campbell remained. I have examined his plants at all seasons and could never detect any disease on them, but it does spot with others under certain conditions, it is hard to say just what, but the Campbell will thrive and do well where most have failed with the older kind.

The Bordeaux mixture is of no use in checking the violet spot; we have given it a fair trial for four winters and have never had much success from its use. Fir tree oil has given us best results of any, but this was applied too late to be sure whether the benefit came from the use of it or from other causes; we shall try it again another year. It would be curious if, as Prof. Galloway believes, the trouble is not of fungoid origin. E. O. ORPET.

Chester County Carnation Society.

The January meeting was held at the rooms in Kennett Square, Pa. It being the annual meeting, the old officers were re-elected as follows: President, J. H. Ladley; vice-president, E. Swayne; treasurer, J. J. Styer; secretary, W. R. Shelmire.

The secretary gave details of the Boston flower exchange as reported by Mr. Davis, who had recently visited the "Hub." The question was discussed at length and favorable to the adoption of some such scheme in Philadelphia. The committee on sale of flowers was authorized to look the matter up and report later.

The committee on flower exhibit reported interview and correspondence with Secretary Farson of the Penna. Horticultural Society looking towards a union with that society for an exhibition of carnations. The report was accepted and the committee continued with power to act.

The secretary read an invitation for the members of the society to attend the annual banquet of the New York Florists' Club.

On motion it was agreed that the society insist that the committee having in charge the bestowal of the gold medal offered by this society shall use the scale of points adopted here some time ago.

Mr. Darlington had used odorless fertilizer as a plant stimulant in the greenhouse with marked advantage; C. J. Pennock had used Stockbridge manures. Mr. Darlington had lightened soil on benches, part with coal ashes, sifted, and part with sand, and found the mechanical condition much better where ashes were used. Pres. Ladley had used lime for the same purpose successfully.

Wm. Swayne reported a lot of plants grown under glass on a bench all summer that had made a strong growth, were remarkably healthy and were making an abundance of bloom.

The exhibit of cut flowers was exceptionally fine. C. Love showed one, a deep pink; Mrs. Starr sent several seedlings of this year's production; P. Barnard showed Brutus X McGowan in several colors; E. Swayne showed one, Cæsar X Golden Gate, of Chester Pride type, large and showy; Wm. Search showed a white in style of McGowan; Sec'y Shelmire showed 30 varieties of yellow, "Sons of Cæsar," and some others of extra merit, also three flowers in distinct colors from same plant; I. Passmore showed several seedlings of promise. Altogether the flower exhibit was the best ever made at a regular meeting, the seedlings being especially strong. C.

American Carnation Society.

The third annual meeting of the American Carnation Society will be held at Indianapolis, Ind., Feb. 20 and 21. The following program has been arranged:

New carnations and their introduction into commerce—Fred Dorner, La Fayette, Ind.

Border carnations—Prof. Bailey, Ithaca, N. Y.

Carnations for cut flowers—Eugene Dailledouze, Flatbush, N. Y.

Desirable varieties, and how they may be improved—R. Witterstaetter, Cincinnati, O.

Carnations in Canada—Walter Muston, Deer Park, Ontario.

The discrimination of diseases without the use of the microscope—Prof. Arthur, La Fayette, Ind.

Flowers for profit—J. T. Anthony, Chicago, Ill.

The meeting and flower exhibit will be held in the Dennison Hotel, corner Ohio and Pennsylvania streets. All persons interested are welcome to the sessions and growers generally are invited to exhibit flowers. The Chester County (Penna.) Carnation Society offers a gold medal for best six blooms carnations, any variety, not introduced before 1892—open to all growers. Certificates of merit will be awarded valuable varieties.

Further information may be had on application to C. J. PENNOCK, Sec'y.
Kennett Square, Pa.

Portia and Lady Emma.

In a recent issue of the AMERICAN FLORIST I find reference is made to carnations Portia and Lady Emma. Portia is distinct from Lady Emma both in color of foliage and habit of growth. I have not seen Lady Emma for at least 6 years, but I recall the plant very positively. The foliage was of a dull leaden green, the habit branching and brittle, whereas the foliage of Portia is silvery grey. The habit of the plant is very compact, keeping quite close to the soil. At the time I raised Portia there were a number of scarlet seedlings in the same batch. Before the death of the late Mr. Osborne of Mamaroneck and about the time I mention I used to send him seedlings not distributed. I forget for the moment the name of Mr. O.'s gardener, who after Mr. O.'s death successfully grew several of my seedlings. It is possible the variety now known as Lady Emma may be one of these. I would like very much to see a plant of the one known as Lady Emma.

JOHN THORPE.
4 Jackson street, Chicago.

Carnation Lady Emma.

As to Lady Emma, which originated with Mr. Starr, we in this locality do not know of a single plant in existence. My attention was first called to the spurious Lady Emma in November, 1891, at Madison Square Garden, N. Y., when I involuntarily exclaimed, "That isn't Lady Emma, that's Portia," and brought quite a storm about my ears. I thought then and still think it Portia pure and simple, and find my opinion well corroborated.

Kennett Square, Pa. EDW. SWAYNE.

Correction.

Mr. John Welsh Young requests us to state that since he wrote his note about carnation Helen Keller Mr. Lonsdale has been persuaded to disseminate the variety next March, hence his statement regarding date of dissemination requires correction.

Displays for Effect at Exhibitions.

At the World's Fair Chrysanthemum Show two very attractive features were the general displays, not for competition, made by the Gallagher Floral Co. and E. Wienhoeber & Co. Neither of our illustrations do justice to the subjects, but will serve to give merely a general idea of the means employed to obtain what were in the originals very taking effects. The canopy of red cloth used in Gallagher's display came out very poorly in the photograph and the engraver endeavored to paint in the folds in the cloth but made a poor job of it. The palms in Messrs. Wienhoeber & Co.'s display are only faintly outlined in the picture. There was not sufficient light where the exhibit stood to get a good photograph.

All who saw the originals will we are sure agree with us that such displays should be encouraged, and we believe managers of exhibitions will make no mistake in offering liberal premiums in classes for say, "Best general display of plants and flowers arranged for effect, open to all, any material admissible," and "Best display of flowers arranged for effect with accessories."

Certain it is that the general public takes much more interest in effective general displays of this sort than in any other one feature of an exhibition, unless it be the table and mantel decorations, and we must keep the interest of the public at the highest possible tension to make the exhibitions financially successful.

In the compilation of premium lists for another year we would recommend that these features be made quite prominent:

Vases of chrysanthemums containing 50, 25 and 12 long stemmed blooms.

Vases of roses and carnations containing similar numbers of blooms (with adequate premiums for same).

The two classes for general displays mentioned particularly in this article.

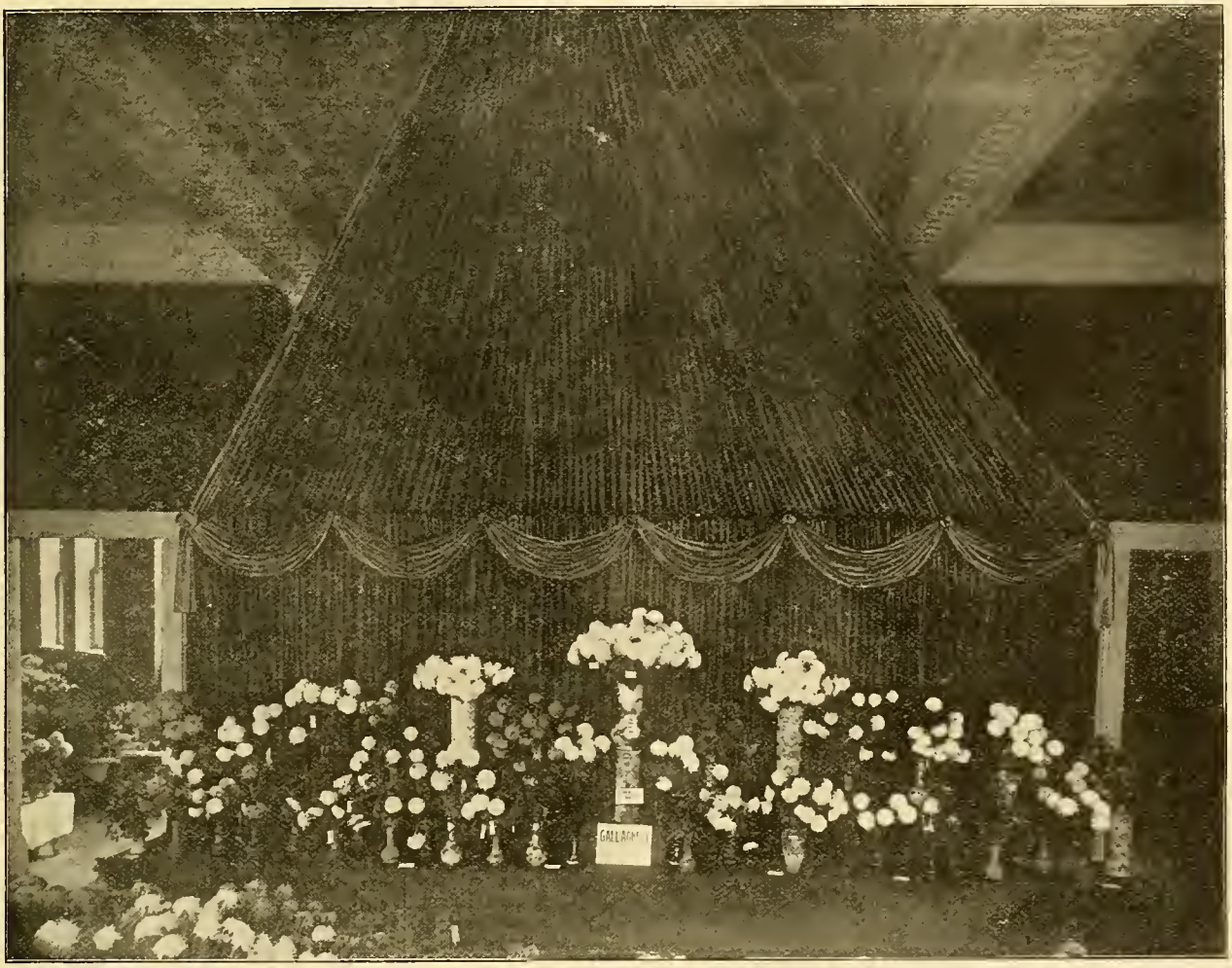
Table decorations.

Mantel decorations.

Every one of the above will be a strong drawing card with the general public and the various competitions should take place on different days, so as to have a "special feature" for each day, and further, to give every one a chance to take part, for no one could well compete in all these important classes on the same day.

Exhibition Management.

I wish to heartily indorse every point made by B. in his "Review of a flower show" in the FLORIST for December 14. In every particular he has given my ideas of how an exhibition should be conducted and the exhibits that draw the best and are the most talked about. While chrysanthemums should be the leading feature at a November show other flowers should not be put in the background, as they have been heretofore. As he says, the premium list should be issued as early as possible, not later than January, and be as explicit in every particular as it can possibly be. Give premiums on roses that will at least cover the retail price, and let us have roses in dozens and collections as well as chrysanthemums, and give sufficient to bring out a really creditable showing in this department. If you wish to give the retailers a show let them have a class by themselves. Do not make the



GENERAL DISPLAY BY GALLAGHER FLORAL CO. AT THE CHICAGO SHOW. THE CANOPY WAS DARK RED WITH FESTOONS OF PALE YELLOW.

poor grower compete against the retailer's money, for it is not fair competition. We want all classes and conditions but let each one stand on its own footing.

In regard to plants the size of pot should be stated in every case, so that every grower would know just what to expect, and let us by all means see that it is understood that the pots must be washed clean and everything in shape.

O. P. BASSETT.

Euphorbia Poinsettia.

Every florist ought to grow at least a few of these showy plants. There is nothing that will brighten up a palm or fern house so well as a few well grown poinsettias.

The cultivation is simple. Cut up the canes to one eye cuttings from March 15 to April 15; put in cutting bed of good sharp sand with bottom heat of 75°. When they show signs of roots put them in 2½-inch pots and when rooted through shift to 4-inch or plant in the center bed of the greenhouse in 6 inches of loam and well decomposed cow manure mixed well with one-eighth part of sand. Plant in rows 8 inches apart with 12 inches between the rows and tie the plants to wire or stakes, as they require it. If good large blooms are wanted do not grow but one cane to a plant. Keep well watered during the growing season and by October 15 water with liquid manure twice a week and more sparingly to harden them up.

When for pot culture shift from 4-inch to 6 or 7-inch, according to size of plant, and plunge them in the ground in a sheltered place outside or place them in the houses. I prefer inside culture, as they keep their foliage much better and make more perfect blooms, and are not so apt to be much neglected. The old plants can be grown, but I have always had better blooms from young plants, and blooms from 12 to 24 inches across are surely a thing of beauty. J. FULLER.

Forcing Asters and Sweet Peas.

1. Which is the best white aster for forcing either in greenhouse or frames?

2. Can sweet peas be successfully forced to be in bloom by Christmas, and with what temperature and when must seed be sown? G. W. G.

Belleville, Ill.

1. Asters are not first-class subjects for forcing so far as my experience with them has gone. They are liable to become rusty and are an easy prey for thrips in a forcing temperature, and if they are brought along slowly they take too long to produce their blooms, occupying space longer, according to our judgment, than is profitable. If "G. W. G." feels as though he must make the trial, and as locality sometimes has some influence on success or failure, and in Illinois asters may behave more creditably than they do hereabouts, the Truffauts Perfection is one of the most popular sorts for outdoor blooming, so are the chrysanthemum flowered varieties. The Victorias, on account of dwarfer habit, are more suitable for pot plants. All varieties, however, grow taller under glass than they do outdoors.

2. Regarding the forcing of sweet peas to be in bloom for Christmas. Up to the time that I discontinued growing them under glass for winter blooming I had not been able to do so. I am inclined to think that the best way to proceed with them with that object in view would be to sow the seed directly in a solid bed in a house with movable sash, sowing the seed toward the latter end of July. It might take two or more years experimenting to hit the correct date for planting for each locality to bring the crop just right not to conflict with the late outdoor crops and yet be in full blast for the holidays. The sash should remain off the house where the seed is planted as long as it is safe for the plants, though they will stand considerable frost without injury. Some years ago I had some plants the seed of which was planted about the middle of July. They grew luxuriantly and formed buds, but not a flower was produced. They braved the

wintry blast until the thermometer registered ten degrees above zero, when they reluctantly succumbed. Judging from that experience it is reasonable to suppose that good sweet pea blossoms ought to be produced in paying quantities for Christmas. EDWIN LONSDALE.

Seasonable Hints.

After your second crop of smilax is cut, which should be about now, is a good time to give the bed a mulching of manure. For that purpose half decomposed cow manure is the best material. If too new the ammonia arising from the same will burn the young tender tips of the leaves unless you can keep some ventilation on, and on many days at this time of year you cannot do that. Don't water at the roots until the young growths are up a foot or so or the roots will rot. The crop now starting should be large enough to cut at Easter and then a fourth crop can easily be had in June before you are ready to throw out the bed to make preparations to start afresh in July.

The demand for small ferneries this winter has exceeded even that of last winter, in fact it was a feature of the Christmas trade, but the demand to have them filled or more often refilled is pretty steady from September to June. I find in nine cases out of ten the order is "Fill low and fine." They don't want long straggling fronds; compact and finely cut foliage is what is desired, but alas it is difficult to get enough of those desirable sorts. Keep them in as small a pot as is consistent with the welfare of the plant; for general use plants grown in a 2½-inch pot are plenty large enough; big soft growth you don't want, and at this dark season don't keep them under the shade and drip of palms or orchids; until the sun gets much stronger a rosehouse temperature on a light bench is about right; they will then get in such a condition that the dish will last in a satisfactory state for at least four or five weeks, and with that customers should be satisfied.

If you have not already planted any gladiolus bulbs among your carnations do so. They are certainly clear profit. While I don't at all approve of turning the carnation house into a vegetable garden—not if you are going to grow the carnations for all there is in them—there is no harm at all done by a few gladiolus. What they rob of the soil is nothing and by the time their leaves will cause any shade we have light sufficient and to spare. I once took the advice of a writer and merely pressed the bulb into the soil, leaving the top of the bulb entirely exposed. This I found was much less satisfactory than planting the bulbs with a covering of a good inch of soil. Don't over do it, every other row is enough.

Excuse what may begin to appear an old story, but I notice that fine white azalea—most invaluable at Easter—"Borsig," is coming too early for that harvest time. Remove at once to the coldest corner you have and they can be retarded.

I have not noticed any of the noble army of carnation specialist saying much about the rust this winter. Having visited nearly all the big and little growers in this vicinity and also a good many other growers in several states and provinces, it is my opinion that the rust is a very serious affair and more widespread than ever. Last year a large grower in Corfu, N. Y., remarked he would rather battle with rust than red spider. He has altered his tune entirely. Nothing but a persistant application of some remedy will keep this scourge in check. I have this winter before inserting the cuttings in the sand dipped them in Bordeaux mixture, again before being potted another bath, and kept the young plants as far as possible from the old infected stock. There is no doubt old Silver Spray is the worst addicted of all varieties to this disease and the beautiful Daybreak easily catches it if at all exposed. With old plants I have tried both Bordeaux mixture and fostite. With the fostite I have had much the best results completely holding the disease in check. It is more easily applied than Bordeaux mixture and does not stain the foliage. Fostite can be readily washed off. I believe if the latter preparation were freely dusted on the plants in the field on dewy mornings and followed up every few weeks in the houses, this new enemy to the florist could be conquered.

Buffalo, Jan. 8. WM. SCOTT.

New York.

The annual supper of the New York Florists' Club came off according to program on Saturday evening, January 6. Every seat at the long table was filled, about fifty members in all being in attendance. The table and mantels were handsomely adorned with vases and baskets of the choicest products of New York's famed greenhouses and the arches draped with smilax, all of which had been generously contributed by the various growers. In the place of honor sat President Manda, on his right President Lonsdale, of the Philadelphia Florists' Club, and toast master Charlie Weathered, and on his left Messrs. John H. Taylor and Ernst Asmus in dress suits, smiles and expansive shirt fronts looking for all the world like a pair of twins.

After the inner man had been fully satisfied and the orchestra had done its share towards the general enjoyment toast master Weathered took charge of the proceedings and called upon W. A. Manda to respond to the toast "Our Nights." Mr. Manda extended a hearty welcome to all and spoke of the great value to the cause of horticulture of such gatherings as the present, which bring into friendly intercourse all departments of the business and do so much towards establishing closer relations between the members of the club.

The next toast was to the Society of American Florists and was responded to by Secretary Stewart, who referred to the National Society as the great instrumentality through which these pleasant social gatherings had been made possible and predicted a good time for all those who should visit Atlantic City on the occasion of the convention next August. Edwin Lonsdale, who responded for "The Affiliated Societies," put the house into a state of hilarity by stating that he had come from Philadelphia to New York for the purpose of getting a rest. He extended a cordial invitation on behalf of the Philadelphia Club for all present to come to Atlantic City next August, and concluded by saying that he never came to New York without learning something.

John H. Taylor was next called upon to say a word on the "Future of the New York Florists' Club." Mr. Taylor spoke eloquently on the mission of the club and of the possibilities for the future if dissensions are avoided and the present harmonious relations and prosperous condition be continued. The health of absent friends who had been with us in the past but were prevented by sickness from attending was then drank standing, and J. M. Keller was called upon to respond, which he did in a feeling manner, making particular allusion to the enforced absence of the president-elect, Mr. P. O'Mara.

The toast master then called upon Mr. Lonsdale to favor the company with that old familiar song "The Brave Old Duke of York," which he asserted had never been equalled even by Patti, and the ever popular melody was then rendered in the most approved style with vigorous chorus accompaniment. Mr. Fred Storm responded to the toast "Horticulture on Long Island," and spoke eloquently of the elevating influence of working among flowers. The next speaker was D. N. Roberts, who spoke for "The Kindred Trades." His allusion to the great glass industry in the United States and his vigorous declaration that he wanted "to see nothing on top of a greenhouse, through which the sun of heaven shines, but American glass," was received with the greatest enthusiasm and was cheered to the echo.

After a few words from Dr. Presby Mr. John Turner, the famous banjo player, was called upon for some music, which he furnished in such an acceptable manner that he was forced to respond to several vigorous encores. Ernst Asmus was then called upon to tell where all the money goes to, but claimed to be unable to throw any light on the subject and asserted that very little of it finds its way to his pocket at the present time. Mr. E. Wells then made an interesting little speech in which he advocated the promotion of friendly relations free from all selfish interests as the most necessary step towards realizing the ideal association, and was followed by James Logan, who said a few words in behalf of the old gardeners and concluded with an apt quotation from Robert Burns.

C. W. Ward, in speaking on the subject of carnations, made reference to his experiences as a boy in the country, "where the wolves howl," told of his achievements in carnation culture and predicted the future triumph of the carnation over the rose. The allusion to the wolves excited Ernst Asmus' hunting passion and he was with difficulty restrained from going home to get his gun. Charles Zeller was next introduced as one of the oldest and most honored horticulturists in the community and was listened to intently while he told of his old time experiences and expressed over and over again his all-absorbing love for plants and flowers.

After a song by Mr. Wallace, Alex Burns was called upon as another man who ought to be able to tell where all the money goes to. He refused, however, to give away the secret, but claimed that the commission man did his part towards helping the growers and retailers to accumulate their share of the money, and declared that if the commission men were closed up for one week there would be lots of sore heads.

Treasurer Weathered was then called up by President Manda and received a great ovation as usual. He spoke of his association with the club as the happiest experience of his life, and said that he would always consider it a pleasure and a privilege to serve the club in any possible way. John Scallen being called upon as a retailer to explain where all the money goes to disclaimed any knowledge of it and asserted that he hadn't got it, anyway. All the speakers were enthusiastically applauded and the leading favorites were each greeted as they rose with a vigorous rendering of "For he's a



GENERAL DISPLAY BY E. WIENHOEBER & CO. AT THE CHICAGO SHOW.

jolly good fellow," in accordance with precedent. The whole affair was most successful all through.

There is little to be said of the flower trade at present except that it is still dull and the overstock of all varieties has forced prices down lower than ever for this season of the year. The policy of the retailers of buying "by the mouthful," in small lots for immediate needs only, makes the business very uncertain and particularly trying on the wholesale dealers, but there seems no remedy for it at present. It is fortunate that many of the growers are just now off crop, for with a full cut all round the situation would be much worse.

It is hard to understand why any one should try to force tulips for this early date, for they are never of any use when brought in. There are quite a number of these abortive blooms coming in but nobody wants them at any price.

Dailledouze Bros. are very enthusiastic over the carnation Bouton d'Or which they are growing now for the third season and which bids fair to be the standard yellow for the immediate future. The principal objection against this variety by those who have tried it in the past has been that it roots with difficulty, but Dailledouze Bros. say that they find no trouble in this line. Carnation Puritan is doing well also at this establishment.

Among the carnations which the Flatbush growers intend to abandon after this season are Grace Wilder, Silver Spray and American Flag. Over at G. Bergmann's the cyclamens are very handsome and are well worthy of a visit. An unusual sight is a bench of Bennetts at G. Messeberg's which are equal to the best ever shown in the Bennett's best days.

Ernst Asmus is not satisfied with the behavior of Mme. Cusin as grown in the beds in his new houses. It seems to do better on the old fashioned benches. Among the finest roses coming to the N. Y. market at present are the Bridesmaids from Frank McMahon.

James Purdy feels much elated over the support received from the uptown florists in his new 43d street store. This was his old ground before his down town venture and he seems to have got all his old trade back again.

A. H. Langjahr is making a success in his wholesale business in Brooklyn and is enlarging his store.

Some of the largest contractors are using American glass in preference to foreign in greenhouse construction, among them being some who have used foreign glass exclusively up to the last season.

It is said that H. H. Francis contemplates selling out his establishment at Madison.

Mr. P. O'Mara, president-elect of the Florists' Club is quite ill with the grippe.

Chicago.

That the cut of roses this holiday season was far in excess of last year admits of no doubt. The increase is variously estimated at from 30 to 50%; between 35 and 40% would probably be about right. How do we account for the enormous increase? Let us see what some of our largest growers have to say on this subject, and we will at the same time ask a question in regard to returns. The holiday price list is not always a safe criterion to go by. Brides and Mermets may be quoted at 10 to 12, but how much does this stock actually net the grower?

Poehlman Bros. report returns of 12 for Brides, Mermets and Meteors, 10 for Perles and Woottons, and 6 for Gontiers. These are probably as high figures as were obtained anywhere, but their stock was very fine. Their cut this season was larger than last, owing to the fact that almost every house was in full crop.

Reinberg Bros. also report an increase over last year, but when we take into account that 20 new houses were added to their establishment it would show that the cut from the older ranges of houses was less than last year. This is accounted for by reason of the roses being partly off crop. This firm reports prices firm as per price list.

O. P. Bassett's cut was good, but we were unable to obtain definite information.

F. Stielow's cut was fully up to last year's, but there was no marked increase.

O. Mailander reports a heavy crop, considerably larger than last year, all his houses being in full crop.

A. Harrer, G. Harrer, J. Meyer, Lindberg and others, all of Niles Centre, report a normal cut.

Many other growers report more or less of an increase, while others cut a decreased amount, that is in comparison to the same amount of glass. It would therefore seem safe to assume that the increase was not due so much to a larger yield of a certain amount of glass, so we must look for other causes. One important factor was probably the number of new establishments which have sprung up like mushrooms the last year, and additions to the older places. Or, could it be that an unusual amount of pickling was indulged in? Pickling? Perish the thought! What grower would be guilty of such a thing? We tried to locate the sinner for the last two days, but have been unable to find him yet.

The net amount realized for roses, exclusive of Beauties, varies from $4 to $8 per 100. Very few report the higher figure. Of course the quality of the stock cut an important figure. It goes without saying that these prices were disappointing to the grower.

Mr. Lindberg of Niles Centre has a fine house of mignonette in bloom; the variety is Machet. The benches are covered with fine bloom, which finds a ready sale. This is the second season Mr. L. has grown this variety with good success.

Stollery Bros. of Argyle Park are growing a bench of a giant mignonette known as the John May strain; the trusses on this bench are very fine.

J. T. Anthony at Bowmanville also has a good bench of the Machet. The blooms here are larger than at Mr. Lindberg's, but fewer in number. Mr. A. is growing a couple of beds of Blanche Ferry sweet peas which are doing well. The seeds were sown September 15 in 5-inch pots. After attaining a height of about 6 inches the seedlings were planted in the beds where they are now growing finely. A few of the leads are beginning to show buds, and a full crop is expected by February.

Poehlman Bros. have the first batch of freesia in. The blooms are good and sell well. At this place we noted the first really fine bench of heliotrope we have seen for years. The plants are covered with large blossoms which scent the house. A house of pansies of fine strain, grown for cut flowers, are now coming in at this place.

Harrisii lilies promise to become plentiful now. J. T. Anthony, F. Stielow, Adam and George Harrer and a number of other growers have each a large batch just coming into flower.

The finest thing we have seen for years is a plant of manettia at J. Meyer's of Niles Centre. The plant is growing in one of Mr. M.'s rosehouses, where it twines around a post from a distance of about three feet from the ground until it reaches the roof (the house being rather low where the plant grows). The vine has twined round and round until it formed a cone shaped mass five feet long and three feet in diameter, which is fairly loaded with blooms. The bright little flowers, combined with the dark green of the foliage, make a most charming effect.

Walter Kreitling celebrated Christmas eve in his customary happy manner. It matters little to Walter what the state of the weather happens to be; ice or no ice, he is sure to have his skates on. At midnight, according to time honored custom, he started on a tour around town to wish the boys a Merry Christmas, not forgetting to lubricate his skates. This year he appeared on his first round with a Japanese doll in his arms, which was made to perform all manner of antics, but the doll being confiscated on the first round, Walter went for reinforcements, soon turning up with triplets this time. These also soon disappeared, but nothing daunted he turned up a few minutes later with the choicest collection of some 3 or 4 dozen dolls, jumping jacks, monkeys, roosters, etc., ever seen in a Japanese bazaar. These were distributed with a generous hand among the boys. Happy Walter!

J. C. Craig's store at 157 Wabash avenue has been closed.

John Kidwell has opened a retail store at 3832 State street in addition to his place on Wentworth avenue.

Burglars were very neatly caught in the act of blowing open Corbrey & McKellar's safe in the Exchange early in the evening of January 3. Mr. McKellar, who was detained after everyone else had left, returned from supper to find the outer door fastened on the inside. His suspicions had been aroused by some strangers who had hung about the place during the day, so he at once summoned an officer, who called up a detail from the Central Station. The building was surrounded, and, after a search, three young men were found in Corbrey & McKellar's telephone box. A hole had been drilled in the safe, but the burglars were interrupted before they could blow it open. All three have police records and they have been held to the Criminal Court under heavy bonds.

Trade has been very quiet for the past week, and although there is not a heavy stock of flowers now coming in, they are quite up to the demand. Prices have taken a drop, as might be expected. Meteors still hold a good place, selling at $7 to $10; perhaps the next favorite is Bridesmaid, which outclasses Mermet, La France or Wootton; it is a great favorite; it sells for $5 to $7, while Mermet does not often go above $5. Good Beauties sell without any forcing at $25 to $35; it is worth noting that in times of dullness first-class stock sells, while inferior or low grade material has no chance at all. Colored carnations are more plentiful than they were a week ago; $3 is the highest quoted for best fancy, $1.50 to $2 being the average. Violets are more plentiful, but not ahead of the demand; they bring $1 to $2. Some excellent stock is now coming in from local points.

In bulb stuff Harrisii are plentiful, running from $10 to $15, and they are selling pretty well. Romans and paper white are still too plentiful at $2 to $3; valley is fairly plentiful at $4 to $5. Tulips are not yet coming in in quantity; some extra stock has sold at $8 per 100, but $4 is the average. Von Sion narcissus are not seen in the market, though a few are noted here and there about town.

Rather more orchids are seen than in previous years; cattleyas are selling at 50 cents each, cypripediums at 25 cents. The retailers say trade keeps very dull; there are few large entertainments this season, and elaborate decorations are the exception rather than the rule. The big charity ball this week made very little impression on floral circles.

Philadelphia.

The January meeting of the Florists' Club last Tuesday evening was very well attended. The special attraction being the discussion of the coming meeting of the S. A. F. next August, and the large attendance showed how alive the trade were to the importance of the convention and their desire to do what they can to make it a success. The various committees are to be appointed by the president and will get to work at once.

There was quite a discussion as to the future of the building or real estate of the Horticultural Society. The trustees seem to want to sell the site and after investing two-thirds or more of the proceeds in good interest bearing securities to put up a suitable library and meeting room for the uses of the society. Quite a number of those present however seemed to think that the hall should be rebuilt and that the funds necessary to make a modern hall complete in every respect, could be raised with comparative ease, as there were a great many wealthy persons connected with the society who would loan or contribute money if given the opportunity to do so. Something decisive will no doubt be done before long.

Trade the past week has been, well, just medium; some days very dull, others more lively; next week promises better, the first assembly ball being held Friday evening, the 12th. This is the first important affair of the season and is likely to keep the boys busy, although the number of bouquets carried has fallen off a great deal in the past few years.

Roses are down a little both in price and quality. Meteors, Mermets, Brides and La France are now selling at from 8 to 10; Cusins, Watteviles 5 to 6; Perles, Gontiers, etc. 4 to 5; Kaiserin and Testouts 8 to 12. Beauties and Belles are not near as good as they were and seem to feel the effect of the forcing they got about Christmas. The best bring 60, the majority selling for from 30 to 40. Carnations hold up very well, 2 being still asked for good ones, while for best Daybreaks 4 is the price, and the same for Ophelia and Sweetbrier. Edna Craig commands 5 and Helen Keller seems to sell well at 7. Valley is getting plentiful, the new crop now coming in; 4 is the price. Romans plentiful at 2 to 3. Double violets are now to be had in quantity at from 1 to 1.50 per hundred for the best. Callas are 8 and Harrisii in full supply at 12.50.

G. Anderson and Smith & Whiteley are now in the market with Brunners for which they ask $50. J. Burton will have another lot of hybrids in the coming week.

Some of the growers say it is hard work keeping mildew down during the warm muggy weather we are having. There has been no severe weather as yet, in fact with but few exceptions the temperature has not been below freezing point and the ground is still open. This should make quite a difference in the coal bills which played such an important part in the expense account of last winter.

C. Y. Danenhower, of Woodland avenue, had a slight fire in one of his houses last week; it was gotten under control however before much damage was done; it originated in some wood work near the boiler.

Isaac Kennedy has resigned his position with Henry A. Dreer and is now foreman for John Burton. K.

Boston.

The week following New Years has been a fairly prosperous one, with a good sale for first quality stock in roses especially. Those who make a specialty of number one roses have had no difficulty in finding customers for such goods and claim that they could have disposed of many more if they could have furnished them. The weather has not been favorable for the production of good stock. It has been unseasonably warm and muggy with but little sunlight and most of the roses coming in show the bad effects of these conditions.

The January meeting of the Gardeners' and Florists' Club was better attended than usual, this being the occasion of the inauguration of the new president, and further interest being excited by the announcement that the essay committee would present some novel plans for increasing attendance at the monthly meetings.

After routine business had been completed the retiring president, Jackson Dawson, made a few remarks thanking the members for their support and kindness during his term of office, asserting his readiness to work in the ranks as hard as ever and wishing all a Happy New Year, and then introduced his successor P. Welch. President Welch on taking the chair thanked the club for the honor they had conferred upon him and begged their indulgence for the coming year, his intention being to try to emulate his predecessors and to deal justly with every one. He then introduced the vice-president elect, W. H. Elliott, who said he would be content to perform a thinking part for the year, and would not feel a bit slighted if the president should be on hand at every meeting. Secretary L. H. Foster and treasurer Ed. Hatch were next pre-

sented, the latter being happily introduced as "the most important officer to make his bow to you." Mr. Hatch gave a few figures which he said showed that he takes better care of the club's money than he does of his own. President Welch as an introducer and treasurer Hatch as a respondent are a powerful team.

Lawrence Cotter, Elijah A. Wood and Jas. Wheeler were announced as the committee on essays, and Wm. Martin, John Walsh, Geo. A. Sutherland and Jos. A. Carrol as the executive committee for the ensuing year. The essay committee presented suggestions and plans for future meetings advocating radical changes in their character and introducing social features as the prominent attraction. A very spirited discussion resulted in the assignment of the subject to the next regular meeting.

An invitation from Secretary John Young on behalf of the New York Florists' Club to attend the annual banquet of that organization was read and accepted with thanks, M. H. Norton facetiously making the motion "that we all attend and charge expenses to the club," and treasurer Hatch indignantly objecting.

Information of the sudden death of the wife of Lawrence Cotter having been received, remarks expressing sympathy were made by several members and motions were carried to prepare resolutions of condolence, to send a floral tribute, and to appoint a committee to represent the club at the funeral.

There was a large audience present to greet Mr. Edwin Lonsdale on the evening of January 8, and listen to his paper on "Possibilities in Horticulture." The essay was highly commended and the discussion which followed was spirited and interesting. The paper together with a synopsis of the discussion will be presented in our next issue.

The funeral of Mrs. Lawrence Cotter on January 4, was attended by quite a large number of florists, and the Gardeners' and Florists' Club sent a tribute in the form of crossed palm leaves fastened with a knot of ribbon, and orchids. Mrs. Cotter was a most estimable lady devoted to her family, and much sympathy is expressed for Mr. Cotter and his three little motherless children who have met with such an irreparable loss.

Buffalo.

Trade has entirely subsided to its normal condition and the brief period of excitement which prevailed at the holidays has entirely passed away. Flowers of all kinds are in plentiful supply with a fair demand at very reasonable prices. Violets are coming in much more plentifully and the price is down just now; $1.50 per hundred wholesale is the price for the best. Roses are plentiful and quality good. Carnations brought a big price at Christmas, $5 per hundred for Daybreak and a few other fancy sorts, but that should not be considered high when quality is considered. Compare Daybreak with its 3-inch flower and 18-inch long stem, and that the thickness of (almost) the ideal carnation, with the puny little flowers with 6-inch stems that were sold ten years ago. The best flowers of to-day must be considered cheap at one dollar per dozen.

Home grown lily of the valley is here and of good quality and so are good long stemmed tulips of Chrysolora and La Reine. The demand for tulips has only just commenced. It is to be hoped it will be good although it looks at present as if they had permanently taken a "back seat." After reading the reports of holiday trade from many towns, it seems that we were, both as regards volume of business and prices, well up with the best. It is very certain our local growers and commission men assumed their most tony prices, so a good retail price we had to get.

Mr. Simmons, of Geneva, Ohio, gave us a call on New Year's and was so pleased with the appearance of his celebrated offspring "Daybreak" that he had to purchase a few dozen and send to distant friends. A few of our store men wish me to announce that they have several thousand yards of green wreathing for sale which they will sell very cheap *now*. There was either too much of it here or the demand was not as good as last year. Holly was entirely cleaned up. W. S.

St. Louis.

Since the last report the market has broken and all are looking for the cause. It can not be a reaction after Christmas, because there was nothing very great at that time to react from. There has been but a limited supply of stock coming into the market, as everyone appears to be off crop, but still there is not enough doing to even keep this reduced quantity moving. What will happen when the crop comes on again and heavy cutting begins is something hard to decide. All are going ahead, however, and hoping for the best. Valley of the present season's crop has made its appearance in market, and although short of leaves is good in all other respects.

Being in Belleville the other day the writer availed himself of the opportunity to call on Mr. Will Hucke, who has during the past season erected three equal span houses running north and south, two being twenty feet wide and one ten feet. The two larger houses are planted with roses, Brides and Bridesmaids being the varieties grown. They are strong and vigorous, and although planted late have apparently lost no time by the wayside, the Bridesmaid being especially strong and full of heavy canes from the bottom. The roses cut from these plants have been the finest coming into the St. Louis market during the season, and they promise to stay to the fore. A few Testouts were being tried and had made a strong vigorous growth and promised well; it is doubtful, however, if it will ever prove as popular as it should.

The smaller house was planted to carnations, Lizzie McGowan being the variety most grown. It has proved itself to be the best white variety for the Belleville soil. Some good Fred Dorner and Daybreak were also noted, the carnations all through averaging up fully as well as the roses did. The plant is heated by steam, one twin Florida soft coal surface burner taking care of the place easily. The system of piping employed is what is known as the "single pipe system," the originator of which is a resident of Belleville. The peculiarity of this system is that one pipe answers for both flow and return, the pipes entering the houses at one end and having a raise of one inch to ten feet to the upper end where an automatic air tap is placed. The advantage over the ordinary system is that the heat can be much better controlled where one pipe is put on at a time, and where the valves are all at one end of the house, it being impossible to get the wrong flow or return valves open and have some pipes fill with water at the risk of burning out the boiler. When the system was being put in all florists who saw it were of the opinion that it would never work, but Mr. Hucke having a good guarantee was willing to take the chances, and has surprised everyone by the satisfaction it gives. It is admitted, however, that it will not work smoothly when the steam has to be carried two hundred feet or more.

We visited several other places, but will reserve descriptions for a future occasion.

There has been a division of partnership in the Ayers Floral Co. Mrs. Ayers continues the Easton avenue store under the same firm name, and Messrs. Bucksaht & Berning assume the business at 2602 Olive street under the firm name of Bucksaht & Berning. R. F. T.

Washington.

The weather during the past month has been unusually mild and the greater part of the time damp and cloudy.

The growers say they have had no cause to grumble at the holiday trade, neither have they much to brag of. Plant sales were not as good New Years day as Christmas. They say this is owing to the Saturday before New Years day being very stormy, preventing many customers from getting to the markets.

The stores report excellent trade New Years day, fully up to Christmas, and like it in respect to persons putting off giving their orders until the last moment. Most of the stores sold out everything and everyone seemed happy. There was comparatively little stock purchased of the commission men. The majority of our florists have greenhouses, and not looking for a great demand for flowers this season, owing to the stringency in the money market, they hesitated about putting in much stock, preferring to cut their own close and be on the safe side. Therefore the demand was a trifle beyond the supply. No one was caught badly.

Luncheons, teas and receptions are the prevailing fashion in society circles this season and furnish our florists with the greater part of their work. Germans, which a few years ago were all the rage, are now seemingly a thing of the past.

New Years day is really the beginning of social life and events in Washington. It is one giddy whirl from then to the beginning of Lent. Many orders have already been placed for decorations. The retailers have had quite a good business the past week. Some of the most conservative of the fraternity predict a good trade during the social season this year.

Flowers are plentiful just now and the quality is usually very fair, showing the want of a little more sun light.

C. LESLIE REYNOLDS.

Toronto.

The general verdict concerning business at New Years is that it was "rotten." The weather was cold and about as bad as it could be, so that people were unable to get out of their houses; altogether it was a great contrast to Christmas, and though it might be called seasonable it was not a pleasing contrast to the florist at any rate. Roses have dropped very little in price yet.

In my last notes I said that there was not so great a sale for holly as usual this Christmas time; this was a mistake; the total sales were as large if not larger than in former years, but it sold in smaller lots; only some rubbishy stuff was left over.

The executive committee of the G. and F. Association met last week and arranged for a series of essays to be read at

future meetings. The chrysanthemum show of '94 was also discussed and various improvements in the prize list suggested. The preliminary prize list will if possible be published in February or early in March. Mr. Geo. Manton was chosen for chairman of the executive committee.

The seed trade here are discussing what can be done to make the association happy in the event of Toronto being chosen for holding the next convention.

E.

News Notes.

TOLEDO, O.—Christmas trade was somewhat less than last year and prices a trifle lower. Supply was equal to demand, and quality about same as last year.

WILMINGTON, DEL.—Christmas trade was much better than last year with no change in prices. Supply was equal to demand, and quality about as usual at this season.

PORTLAND, OREGON.—The money value of Christmas sales was about 20% greater than last year. Prices were a little lower. Supply equal to demand. Increased call for carnations and violets, also holly.

SAN FRANCISCO.—Christmas trade was 50% larger than last year. Prices same as usual at the season. Supply was equal to demand. Quality about as usual. There was an increased call for palms.

HARRISBURG, PA.—Christmas trade was about 25% larger than last year, and no material change in prices. Quality superior. Increased call for palms and blooming plants. Trade was very satisfactory.

ELGIN, ILL.—Christmas trade was about ⅓ less than last year and prices decreased about same proportion. Supply rather greater than demand. Quality better. Took in more pennies, nickels and dimes and fewer dollars.

SALT LAKE CITY, UTAH.—Christmas trade was about 25% larger than last year. Prices lower. Supply not equal to demand. Quality about same as last year. Sent in large orders to wholesalers but they were not filled in full. Increased call for chrysanthemums.

DENVER, COLO.—Christmas trade was 20% larger than last year, and with prices 40% lower. Supply was equal to demand. Quality better than last year. Am. Beauty roses were high priced at wholesale, but low at retail. Increased call for red flowers, especially red roses. Very few baskets. Poor sale for valley.

LOS ANGELES, CAL.—Christmas trade was about 40% larger than last year. Prices about as usual at the season. Supply not equal to demand. In quality carnations were better, roses poorer. We bought more largely than usual and sold all at a profit. There was an increased call for roses, carnations and violets.

LYNN, MASS.—Christmas trade was much smaller than last year. Roses generally sold at $1 to $1.50 a dozen, Beauties at $2. Plenty of flowers but demand slow. Violets were in best demand and sold at $2 a 100. Mistletoe, palm leaves, mountain laurel, evergreen and southern pines were in great demand. Sold much more of these than last year.

BRIDGEPORT, CONN.—Receipts from Christmas trade were about 10% less than last year. Carnations and violets held up to usual Christmas prices, but roses sold at about 50 cents a dozen less. Supply was abundant. Quality superior. More call for the cheaper flowers. The volume of business was greater than last year, but customers spent less money and were satisfied with a cheaper grade of flowers, there being very little call for high priced roses.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By a Scotchman; single; age 25; a good man in every respect. Please address QUEEN, care American Florist.

SITUATION WANTED—In store or greenhouses—having experience in both. Good references if required. Address J F. New London, Conn.

SITUATION WANTED—By good florist and gardener; well up in all branches of the trade. Good references. Address B E W, care Am. Florist.

SITUATION WANTED—By a German gardener as general greenhouse assistant or private place. Good experience. Address J. ST., 7615 Adams Avenue, Chicago.

SITUATION WANTED—By a young Scandinavian florist; practical and sober; 5 years' experience in different departments; single. Good recommendations. Address H A, care American Florist, Chicago.

SITUATION WANTED—By young Englishman, as gardener. Good knowledge of greenhouse and vegetable garden. Highest references. Private house preferred. WALTER SCOTT, box 178, Kenosha, Wis.

SITUATION WANTED—By married man, commercial or private place; 9 years' experience in growing roses, cut flowers and bedding plants. Best of references. Steady and sober. Address S. E. CONNER, Coatesville, Pa.

SITUATION WANTED—As gardener, in a commercial place preferred; have been in present place 14 years as head gardener. Am also a first-class design maker. Good recommendations given. Address G. P. WENTWORTH, Bucksport, Me.

SITUATION WANTED—After January 15, by a practical florist and gardener. Age 29. German, single, of good character; commercial or private place; South preferred. State wages. Address MAX MORITZ, box 389, Durango, Colo.

SITUATION WANTED—By a German, single, age 31; 17 years' experience in growing roses, palms and general stock, including propagation; wants situation by February or March. Best of references. Address E F, care American Florist, Chicago.

SITUATION WANTED—By a German, middle aged, florist, single; 25 years practical experience in general propagation and growing of commercial stuff; roses for both purposes; decorative plants, ferns and palms, etc. "SUUM CUIQUE," care Am. Florist.

SITUATION WANTED—As foreman on commercial or private place; single, age 30; has a thorough knowledge of rose and carnation growing, bulb forcing and the growing of all kinds of plants. References on application. Address MACK, care American Florist, Chicago.

WANTED—A young florist with small capital can hear of a good chance by addressing D. J. FISHER, Marinette, Wis.

WANTED—A good florist for a large private place. Must be married. Address H C, care American Florist, Chicago.

WANTED—In Chicago, experienced lady florist, German. Good wages paid to right party. Address A B, care American Florist, Chicago.

WANTED—Single man, experienced in propagating and growing of roses and chrysanthemums. Address, stating wages desired, etc., P. O. Box 556, Cincinnati, Ohio.

FOR SALE—$6,500 will purchase 12,000 square feet of glass, well stocked; 1 acre of land, and 8-room dwelling, in Chicago; or will rent greenhouses. Address H. S DIETRICH & Co., 90 La Salle St., Chicago.

ROOTED CUTTINGS.

Brides, Cusins,
Bridesmaids, Niphetos,
Meteors, Perles,
Hostes, Beauties,
Mermets, Testouts, La France.

☞Address for quotations

T. W. STEMMLER,
Villa Lorraine Roseries, MADISON, N. J.

For Mildew on Roses

and CARNATION RUST,

USE FOSTITE.

Book on Fostite sent free.

Address C. H. JOOSTEN,
3 Coenties Slip, NEW YORK.

HEADQUARTERS FOR ROSES.

100,000 READY NOW.

ALL SORTS. BEST VARIETIES.

	Per 100	Per 1000
From 2-inch pots, our selection . .	$ 3.00	$30 00
From 3-inch pots, our selection . . .	5 00	50 00
From 4-inch pots, our selection . . .	12.00	110.00
Hybrid Perpetuals, from 2-inch pots, in 50 leading sorts.	4.00	40.00

Special Varieties at Special Rates.

Send your lists to be priced. Wholesale and Retail Catalogue ready and free to all.

We mention only a few leading sorts of Roses.

Bon Silene, Comtesse de Labarthe, Bride, Mermet, Etoile, Sombreuil, Dijon, Malmaison, Clothilde Soupert, Eliza Fugier, Kuster, Niel, Hermosa, Meteor, Lamarque, La France, Guinoiseau, Sunset, Krueger, Perle, Niphetos, Selfaterre, and a hundred others. ADDRESS

NANZ & NEUNER,
Louisville, Ky.

CONTRACT NOW for FORCING ROSES

for your next season's planting and secure well rooted stock grown specially for your order. Last year, owing to the heavy demands made upon us at planting time, we were unable to fill many orders, thus disappointing our customers. We are now contracting to grow, for delivery when wanted, the leading varieties of forcing roses—including the new kinds, **BRIDESMAID**, the best pink grown; **KAISERIN** and **TESTOUT**; also Meteors, Beauties, Woottons, Brides, La France, etc., etc.

We earnestly request intending purchasers to submit us a list of their wants, and we will be pleased to quote them special prices for strong, well rooted plants to be delivered when they may designate.

We make a Specialty of Growing Roses for the trade. Having experienced and competent growers, our stock is first-class in every particular and we **guarantee satisfaction.** Of the many hundred unsolicited testimonials we append the following: "Roses got of you last year have been the best bearers we have in our houses. RIVERSIDE FLORAL CO., Marshalltown, Iowa."

Order Early and secure the Best.

L. L. MAY & CO.,
Florists and Seedsmen, ST. PAUL, MINN.

Our Wholesale and Retail Catalogue for 1894 mailed free on application.

ROSES.

		Per 100	Per 1000
1560	Perle, 3-inch	$ 5.00	$40.00
1000	" 2½-inch	3.00	25.00
600	Bride, 2½-inch	3.00	25.00
1200	Mermet, 2½-inch	3.00	25.00
200	Hoste, 2½-inch	3.00	

BROWN & CANFIELD, Springfield, Ill.

Forcing Roses.

A stock of the best varieties always on hand.

M. A. HUNT, Terre Haute, Ind.

Do you Hear, Friend Florists!

That we have FANCY GERANIUMS for $1.50 per 100; $10.00 per 1000. We have FANCY FUCHSIAS for $2.50 per 100. We have FANCY CHRYSANTHEMUMS for 75 cts. per 100; $5.00 per 1000. We have FANCY COLEUS for 60 cts. per 100; $5.00 per 1000. We have very FINE PANSIES for 40 cts. per 100; $5.00 per 1000. And PANSY SEED for 10 cts. per trade packet; 3 for 25 cts. Give us your order.

All plants in 2½-inch pots, f. o. b. our place.

MARSH & CO., Springfield, Ohio.

CARNATIONS.

Rooted Cuttings, from flats or pots, leading cut flower varieties. Send for price list.

VERBENAS.

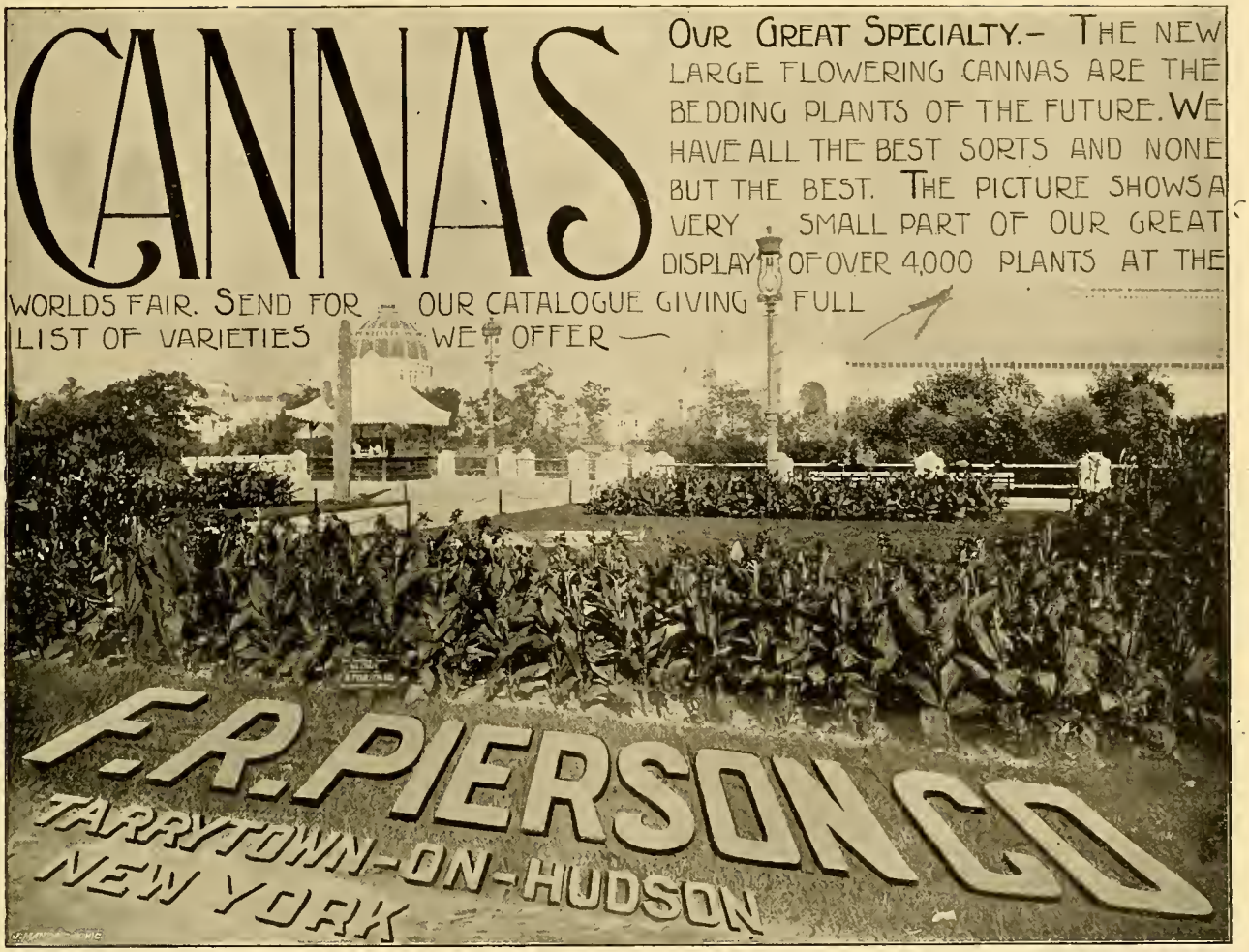
Rooted Cuttings.....$1 00 per 100; $8.00 per 1000
Stock Plants..... 3 00 per 100; 25.00 per 1000

PANSY SEED—The well known Perfection strain. This mixture is the best the market produces.

VERBENA SEED—NEW LARGE FLOWERING. This strain gives a greater per cent. of large flowers, the largest variety and best colors of any known. Send for price list, free.

C. E. ALLEN, Brattleboro, Vt.

When writing to any of the advertisers on this page please mention the American Florist.



HARDY CUT

FERNS!

5,000,000 ON HAND.

EVERYTHING GREEN ALWAYS IN STOCK.

H. E. Hartford,
18 Chapman Place, BOSTON, MASS.

FRESH IMPORTED ORCHIDS.

Cattleya Gaskelliana,
5—7 Bulbs, $.75 each.
7—12 Bulbs, 1.25 each.
Larger plants, $2.00 to $5.00 each.

I. FORSTERMAN,
Newtown, N. Y.

CYCLAMEN GIGANTEUM from best seed, strong plants, showing bloom, in 4 and 5-inch pots, $8, $10, $20, $30 and $50 per 100. Dozen at same rates. Assorted colors.

PRIMULA CHINENSIS, in variety of foliage and color, 4-inch pots, $8, $10 and $12 per 100. Dozen at same rates.

Promptly shipped at "FLORISTS" Express rates.

A. S. MacBEAN, Lakewood, N. J.

THE AMERICAN FLORIST and *Gardening* together to one address for $1.75. Send orders to the American Florist Co.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.



EVERGREEN CUT FERNS

ESPECIALLY FOR FLORISTS' USE.

$1.25 PER THOUSAND FERNS.

IN LOTS OF 5000 AND UPWARDS, $1.00 PER 1000. Ferns furnished the year round. Special attention given to supplying the Wholesale Trade.

L. B. BRAGUE, Hinsdale Mass.

Wild Smilax, Pines and Palmettos

FOR DECORATIONS
AT LOW FIGURES.

Low freight rates by steamer to New York, Boston, Philadelphia and Baltimore.

A. C. OELSCHIG,
SAVANNAH, GA.
Mention American Florist.

Galax Leaves.

You cannot afford to be without them if you sell Cut Flowers and Decorate. Especially for Christmas. Big money in them. I sold 300,000 in 3 months last winter. $2.00 per 1000 by express. Sample 100 sent by mail on receipt of 50c.

LINCOLN I. NEFF, Florist,
4010 Butler St., PITTSBURG, PA
AGENT FOR HARLAN P. KELSEY.
Mention American Florist.

FLORAL DESIGNS

The Cut Flower Worker's Friend. Fine book of 160 pages. Send $3.50 for it, to

J. HORACE McFARLAND, Harrisburg, Pa.

Siebrecht & Wadley,

ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.

Palms,
ORCHIDS,
Roses,
and New Plants.

FRESH DRACAENA CANES NOW READY.

ORCHIDS.

The Finest Stock in the World.

SANDER'S,
ST. ALBANS,
ENGLAND.

Thirty minutes from London.

Our Mr. A Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

When writing mention the AMERICAN FLORIST.

Please mention the American Florist every time you write any of the advertisers on this page.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent, 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

OBITUARY.

AVERY GALLUP.

There were few better known men among the horticulturists of the west than Avery Gallup of Denver. The news of his sudden death at his home January 4 will be a very sad surprise to hundreds of his intimate and dear friends among the florists. He was probably one of the best posted men in the world as to the stocks carried by the leading wholesale horticultural establishments of this country and Europe, having personally visited all of them. Being a very close observer with an excellent memory, he carried at his tongue's end a critical knowledge of the whole world's supply—not alone in our trade, but in art, merchandise and nearly every branch of human industry. His wide experience, travel and knowledge of men and things, combined in a rare degree with an epigramatic way of stating things, made him a most companionable man and all who met him his friends.

Catalogues Received.

Wm. Swayne, Kennett Square, Pa., carnations; Texas Seed and Floral Co., Dallas, Tex., seeds and plants; Webster Bros., Hamilton, Ont., plants; Wm. Elliott & Sons, New York, seeds; Sunset Seed and Plant Co., San Francisco, Cal., seeds, plants and nursery stock; T. H. Spaulding, Orange, N. J., chrysanthemums; Hitchings & Co., New York, greenhouse construction, heating, etc.; James Mott, Orlando, Fla., nursery stock and plants; Wilhelm Pfitzer, Stuttgart, Germany, seeds and plants; Reasoner Bros., Oneco, Fla., plants and nursery stock; New York Market Gardeners' Association, New York, seeds; O. H. Will, Bismarck, N. D., seeds.

ALBANY, N. Y.—Christmas sales amounted to about the same money value as last year, with about 25% more stock sold. Prices on small roses were lower, but good large stock sold well at prices as good as last year. Supply was equal to demand. Quality better. Bought more and sold at lower prices than last year but made a fair profit. Good stuff brought good prices. Increased call for American Beauties and violets. Orders came in late and there was a big rush on Saturday and Christmas day. Holly sold better than ever on account of low price. Roses were not held back by growers so the retailer had fresher stuff. Increased call for fine large roses.

HILLEGOM, HOLLAND.—Herman Buddenborg, bulb grower, has been adjudged bankrupt by the court, which appointed Mr. C. G. Von Reeken solicitor.

CORBREY & McKELLAR,

Wholesale and Commission Florists,

Phone Main 4508. **45 Lake Street, CHICAGO.**

We handle only choice stock and give buyers the benefit of low prices and first-class flowers. When market is over stocked write us for Special prices.

We are booking orders now for the finest stock in the west, of **BRIDESMAID,** from 2-inch pots, for February delivery, at $6.00 per 100; $50.00 per 1000.

BOOK YOUR ORDERS NOW.

FOR DECORATING, NOTHING CAN EQUAL

ASPARAGUS PLUMOSUS NANUS.

CUT STRINGS 8 TO 12 FEET LONG, 50 CTS. 12 TO 18 FEET LONG, $1.00.

Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.

W. H. ELLIOTT, Brighton, Mass.

CUT FLOWERS.

ROSES, standard varieties and novelties.

Carnations, all the new sorts in finest quality.

VIOLETS, MIGNONETTE AND VALLEY.

FIRST QUALITY STOCK. WHOLESALE ONLY.

THOS. YOUNG, JR.,

20 WEST 24TH ST., NEW YORK.

W. ELLISON,

WHOLESALE

Cut Flowers AND Florists' Supplies

1402 PINE STREET,

St. Louis, Mo.

C. A. KUEHN,

(Successor to ELLISON & KUEHN),

WHOLESALE

FLORIST,

1122 PINE STREET,

St. Louis, Mo.

A complete line of Wire Designs.

DAN'L B. LONG,

COMMISSION • FLORIST,

495 Washington St., BUFFALO, N. Y.

FORCING BULBS, FLORISTS' SUPPLIES, LONG'S FLORISTS' PHOTOGRAPHS. Lists, Terms, &c. on application.

VERBENAS, MAMMOTH, perfectly clean, strong plants, $2 per 100. Transplanted Cuttings, $1.00 per 100. Rooted Cuttings, $6.00 per 1000. All to color. Cash.

W. B. WOODRUFF, Florist, Westfield, N. J.

WHEN writing our advertisers please use one of your printed business letter heads or enclose your business card.

Wholesale Florists

The LaRoche & Stahl Flower Co. Limited.

N. E. CORNER 13th & Chestnut Sts.

PHILADELPHIA.

Mention American Florist

SAMUEL S. PENNOCK,

Wholesale Florist

REAR OF 42 S. 16th STREET,

Philadelphia, Pa.

H. L. SUNDERBRUCH,

Wholesale Florist

4TH AND WALNUT STREETS,

Cincinnati, O.

Cut Smilax

AND ROSE PLANTS.

Satisfactory prices on application.

THE NATIONAL PLANT CO.,

Dayton, Ohio.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO.

	Per 100
Perles, Niphetos, Gontier	$ 4.00@$ 5.00
Bride, Mermet, La France	5.00@ 6.00
Meteor, Bridesmaid, Testout	6.00@ 8.00
Carnations, long, white	1.50@ 2.00
" " colored	2.00@ 3.00
" short	1.00
Smilax	15.00
Callas, Harrisii	12.50
Romans, Paper White Narcissus	2.00@ 3.00
Violets	1.00@ 2.00
Lily of the Valley	4.00@ 5.00
Adiantum	1.00
Ferns, common per 1000 $2.50	.25

Cycas leaves, fresh, each $1; same preserved, each 75c.
Western Agent for the GREAT ANTIPEST.

FLINT KENNICOTT, President. FRED. W. H. SUNDMACHER, Sec'y and Treas.

Kennicott Bros. Co.
34 & 36 RANDOLPH STREET,
CHICAGO.
WHOLESALE CUT FLOWERS,
and FLORISTS' SUPPLIES.
WIRE WORK A SPECIALTY.

General Agents for Chicago and the Northwest of Kelsey's Beautiful New Southern Galax Leaves, $2.00 per 1000; 25 cents per 100.

A. L. RANDALL,
Wholesale Florist,
126 Dearborn St., CHICAGO.

Agent for finest grades Waxed and Tissue Papers.

J. B. DEAMUD & CO.
WHOLESALE CUT FLOWERS,
45 LAKE STREET,
IN CUT FLOWER EXCHANGE, CHICAGO.

REINBERG BROS.
WHOLESALE GROWERS OF
CUT FLOWERS
Roses, Carnations and Violets Specialties.
51 WABASH AVENUE,
Telephone 4937. CHICAGO.

WHOLESALE FLORISTS,
JOBBERS IN . . . FLORISTS' SUPPLIES,
METS, BRIDES, GONTIERS, CARNATIONS, ALWAYS ON HAND. FLORISTS' VASES.
N. F. McCarthy & Co.
1 Music Hall Place,
BOSTON, MASS.
HORTICULTURAL AUCTIONEERS. . .

CUT SMILAX,
15 cts. per string till November 1st. Quality first-class. Special attention to orders by wire.
E. BONSALL & SON, 308 Garfield Ave., Salem, O.

Mention the American Florist when writing to advertisers on this page.

Wholesale Markets.

Cut Flowers.

NEW YORK, Jan. 8.

Roses, Gontier, Niphetos	2.00@ 3.00
" Perle, Cusin	2.00@ 4.00
" Watteville, Hoste	2.00@ 4.00
" Mermet, Bride	3.00@ 6.00
" Bridesmaid, La France	5.00@10.00
" Meteor	8.00@12.00
" Beauty	5.00@50.00
Carnations	.75@ 1.50
Violets	.75@ 1.50
Valley	2.00@ 4.00
Roman Hyacinths	.75@ 1.50
Mignonette	4.00@ 8.00
Harrisii	5.00@ 8.00
Smilax	5.00@10.00
Adiantum	.75@ 1.00

BOSTON, Jan. 8.

Roses, Niphetos	3.00
" Gontier	4.00
" Perle, Sunset	6.00
" Bride, Mermet	8.00@12.00
" American Beauty	20.00@75.00
Carnations	1.50@ 2.50
Lily of the valley	4.00
Roman Hyacinths	1.00@ 1.50
Paper white narcissus	2.00
Trumpet narcissus	2.00@ 6.00
Freesia	2.00@ 4.00
Callas	12.00@16.00
Harrisii	12.00@20.00
Mignonette	2.00@ 8.00
Stevia	1.00
Adiantum	1.00
Smilax	12.50
Asparagus	50.00

PHILADELPHIA, Jan. 8.

Roses, Perle, Gontier, Niphetos	4.00@ 5.00
" Cusin, Watteville	5.00@ 6.00
" Bride, Mermet, La France	6.00@ 8.00
" Kaiserin	8.00@10.00
" Belle, Beauty	30.00@50.00
Carnations, H. Keller	7.00
" Ophelia, Sweetbriar, Daybreak	3.00@ 4.00
" Edna Craig	3.00@ 5.00
" Good ordinary stock	1.50@ 2.00
Valley	3.00@ 4.00
Romans, Narcissus, Campernelles	2.00@ 4.00
Smilax	12.00@20.00
Adiantum	1.00@ 1.50
Violets single, per 100 bunches	4.00@ 5.00
" double	.75@ 1.50
Mignonette	1.50@ 3.00
Asparagus	50.00@75.00
Harrisii lilies	10.00@12.50
Callas	6.00@ 8.00

CHICAGO, Jan. 9.

Roses, Beauty	10 00@35.00
" Bride, Mermet, La France	4 00@ 6.00
" Perle, Niphetos, Gontier	3.00@ 5.00
" Meteors	5.00@10.00
" Wootton, Bridesmaid, Testout	5.00@ 8.00
Carnations, short	1.00
" long	1.50@ 2.00
" fancy	2.00@ 3.00
Violets	1.00@ 2.00
Valley	4.00@ 5.00
Romans, paper white	2.00@ 3.00
Harrisii, Callas	10.00@15.00
Cattleyas	50.00
Cypripediums	25.00
Adiantum	1.00
Asparagus	50.00
Smilax	15.00

CINCINNATI, Jan. 6.

Roses, Beauty	25.00@40.00
" Mermet, Bride	6.00@ 8.00
" Perle	5.00
Trumpet major narcissus	3.00
Carnations, long	1 00@ 2.00
" short	.50@ .75
Callas, Harrisii	12.50
Violets	1.00@ 1.50
Valley	4.00@ 5.00
Narcissus	2.00@ 3.00
Romans	1.00@ 2.00
Smilax	12.50@15.00
Adiantum	1.00
Asparagus	50.00@75.00
Orchids, per box	$5 to $10

BUFFALO, Jan. 8.

Roses, Beauties	25.00@50.00
" Mermet, Bride	6.00@ 8.00
" Bridesmaid, La France	10.00@15.00
" Gontier, Perle Hoste	5.00@ 8.00
" Cusin, Watteville	6.00@ 8.00
" Meteor	10.00@20.00
Valley	4.00
Violets	1.50
Hyacinths, narcissus	3.00@ 4.00
Carnations, long	2.00@ 2.50
" Daybreak	2.50@ 3.00
" short	1.00@ 1.50
Smilax	15.00
Adiantum	1.50
Asparagus	50.00

GEORGE A. SUTHERLAND,
SUCCESSOR TO
PECK & SUTHERLAND,
Successors to WM. J. STEWART,
CUT FLOWERS
and Florists' Supplies.
WHOLESALE.
67 Bromfield St., BOSTON, MASS.

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
Wholesale Dealers in and Shippers of
Choice Flowers
OUR SPECIALTIES:
AMERICAN BEAUTIES, METEORS, BRIDESMAIDS.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST,
32 West 30th Street, NEW YORK.
Roses Shipped to all points. Price list on application.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS,
51 W. 30th St., NEW YORK.

JAMES HART,
WHOLESALE FLORIST,
117 W. 30TH ST., NEW YORK.
The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHRS,
WHOLESALE
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.
Established 1879.

MILLANG BROS.,
Wholesale Florists,
17 WEST 28TH STREET,
NEW YORK.
BRANCH: Cut Flower Exchange, 408 E. 34th Street.

MICHAEL A. HART,
Wholesale AND Commission Florist
113 WEST 30TH STREET,
. . . NEW YORK.
THE FINEST ROSES AND CARNATIONS.
Branch, at Cut Flower Exchange, 408 E. 34th St.

Edward C. Horan,
34 W. 29th Street, NEW YORK,
WHOLESALE FLORIST.
Careful Shipping to all parts of the country
Price list on application.

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St., BOSTON, MASS.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and treasurer, 114 Chambers street, New York. Next annual meeting second Tuesday in June, (will probably be held in Toronto.)

Judgments Against Philip Stimmel.

OMAHA, Jan. 6.—The sheriff took charge of the stock and furniture of the seed and implement specialty house of Philip Stimmel, at 911 Jones street, this morning. Stimmel confessed judgment in favor of the Omaha National Bank for $38,000, and in favor of Montgomery, Charlton & Hall for $6,000, and the sheriff immediately took possession. The judgment to the bank is on three notes, given January, 1893, December 27, 1893, and November 18, 1893. The other judgment to Montgomery, Charlton & Hall is on a note executed January 5, 1894. Stimmel has been engaged in the seed business extensively and has been rated as worth $25,000 to $30,000. He has had lately some trouble with the growers from whom he procured his seed, and yesterday suit was commenced against him by one of them for $700. Mr. Stimmel has been doing a large business for the capital invested, and has been a heavy borrower. Some months ago he was sued for about $24,000 by Deering for binding twine, of which he had bought $75,000 worth in 1892. Stimmel claimed an offset of $30,000 to $40,000 in the nature of damages for failure to fill the contract. The case was continued and has not yet been disposed of. Stimmel usually carried a stock of about $50,000. His last statement to the mercantile agencies was this: Gross assets $135,000; liabilities $77,000. He has been in business here about eight years.—*Chicago Herald Jan. 7.*

SELECTION IN SEED GROWING, a paper bound volume of 98 pages recently issued by W. Atlee Burpee & Co., includes, in convenient reference form, the valuable essays read at the Seedsmen's Sessions of the Horticultural Congress held in this city last summer, with the discussions following their reading. In addition to this there is a variety of information concerning operations at Fordhook Farm, Mr. Burpee's trial grounds. The operations of seed testing and selection will prove very interesting to the general reader, as well as to the professional, and the convenient form in which the essays are presented give this little volume permanent value, though of course the primary object of the publishers was to advertise their seed business, and a number of pages are devoted to reprints of press notices the house has received in the past.

Z. De Forest Ely & Co.
WHOLESALE SEEDSMEN,
Growers AND Importers of Bulbs.
JOBBERS IN
FLORISTS' SUPPLIES.
1024 Market Street, PHILADELPHIA, PA.
Price lists to dealers on application.

SEEDS!
PLANTS! BULBS!
Everything appertaining to the Farm and Garden of the best and choicest quality. PRICES RIGHT.
Catalogue on application.
WEEBER & DON.
114 CHAMBERS ST., NEW YORK CITY.

German · Farmers, · German · Gardeners and · Amateurs

are considered very **Desirable Customers** by all Seedsmen, Florists and Nurserymen You can reach almost **THIRTY THOUSAND** of them in all parts of the United States by advertising in Der

Herold des Glaubens,
CATHOLIC GERMAN WEEKLY JOURNAL
Published at 309 Convent Street, St. Louis, Mo., since 1850.

Net Advertising Rates per inch, from which there is no Deviation:

1 Time	$ 1.68
4 Times	4.00
13 Times	10.00
26 Times	17.50
52 Times	31.20
1000 Lines in one year	42.50

Do not allow your advertising agent to substitute another paper as being "just as good," etc, but *insist* upon going in **Der Herold Des Glaubens.**

Special Offer to Clear Quickly.

HARTUNG & CO., 65 Long Acre, LONDON, W. C.
OFFER 250,000 BERLIN LILY VALLEY CROWNS.
FINE QUALITY FOR FORCING, WELL ROOTED, at 27s per 1000. Terms 5% for cash, or with London reference, three months acceptance.

We are also **buyers** of American Pearl Tuberoses, Lilium Harrisii, as well as Pampas Plumes, Uva Grasses, Uniola and all kinds of foreign grasses; for which offers are requested.

FIFTY THOUSAND
PEARL TUBEROSES
F. O. B. NEW YORK.
We offer selected bulbs of above, from four to six inches in circumference, for present shipment, at $9.00 per 1000. Orders accepted subject to being unsold.

SWEET PEAS, California grown.
We are headquarters for California grown Sweet Peas, and parties desiring to contract for their requirements for season of 1894, will do well to write for prices.

SUNSET SEED & PLANT CO.
(SHERWOOD HALL NURSERY CO.)
427-9 Sansome St., *San Francisco, Cal.*

G. J. MOFFATT,
Manufacturer of
PAPER BAGS AND ENVELOPES
Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN, CONN.

Sphagnum Moss.
65c. per bale in car lots; 70c. per bale in less than car lots. F. o. b. Mather. Cash to accompany small orders; usual terms on large orders. Good sized bales and moss of good quality.
G. A. MARVIN, Mather, Wis.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Hulsebosch Brothers,
OVERVEEN, HAARLEM, HOLLAND.

	Per 100	Per 1000
LILIUM SPECIOSUM ALBUM	$ 6.00	
" " ROSEUM	5.00	
" " RUBRUM	5.00	
SINGLE BEGONIAS, fine bulbs, new crop, finest strain, in 4 separate colors	4.00	35.00
CONVALARIA MAJALIS, German pips	1.00	8.00
TUBEROSES, Pearl and Tall, A1 (big) bulbs	.90	7.50
LOW BUDDED ROSES, in sorts, Dutch Stock	9.00	
English Stock	11 00	

All other plants or shrubs can be ordered for March, '94 delivery.
HULSEBOSCH BROS.,
58 West Street, NEW YORK CITY.

Tuberose Bulbs.
Dwarf Pearl and Tall Double.
Extra select, sound stock, $1.25 per 100; $9.00 per 1000.
W. W. BARNARD & CO.
6 & 8 N. Clark Street, CHICAGO.

TRY **DREER'S GARDEN SEEDS,**
Plants, Bulbs & Requisites.
They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
HENRY A. DREER,
Philadelphia, Pa.

EXTRA CHOICE FLOWER SEEDS.
List free on application.
FRED. ROEMER, SEED GROWER,
QUEDLINBURG, GERMANY.

COLEUS.

A large stock, in 75 varieties, including the very newest kinds.

ROOTED CUTTINGS, in 30 to 40 varieties, at $6.50 per 1000 by express; in 20 varieties, at $1.00 per 100 by mail.
Golden Bedder (true), at $10.00 per 1000; **Verschaffeltii, Golden Verschaffeltii, Mrs. I. D. Haight** and other yellows at $8.00 a 1000. **NEW KINDS**, including some of the most handsome ever offered for sale, in 10 varieties, at $2.00 per 100 by mail.
STOCK PLANTS, ordinary kinds at $3.00 per 100; Verschaffeltii and yellows, at $4.00 per 100.
Cash with Order. Safe delivery guaranteed.

CARNATIONS.

ROOTED CUTTINGS of new and leading kinds.

We make a Specialty of **BUTTERCUP** and **STANLEY**, of which we have a large stock. $5.00 per 100; $45.00 per 1000. Plants all in prime condition, and an inspection solicited.

Send for circular of both **Coleus and Carnations.**

W. R. Shelmire,

. . . **AVONDALE, PA.**

SWEETBRIER

Received 1st Premium for "best seedling of any color" at Phila., Nov. 7, '93. Color between Daybreak and Wilder.

Flowers brought $5.00 per 100 wholesale, at J. R. Freeman's, Washington, last winter.

"I like its color better than Daybreak."
EDWIN LONSDALE,

"Sweetbrier is all that can be desired."
W. A. MANDA.

Rooted cuttings, $10 00 per 100; $80.00 per 1000. Delivery to begin February 1, '94.

VIOLET LADY CAMPBELL.

ROOTED RUNNERS. $3.00 per 100; $25.00 per 1000.
Send for price list.

EDW. SWAYNE,
KENNETT SQUARE, PA.

50,000 ROOTED CUTTINGS OF THE

Daybreak Carnation

will be ready for delivery by January 10th. Orders booked now. **Satisfaction guaranteed.**

Price, $2 00 per 100; $15.00 per 1000.

Terms strictly cash. Address

FRED SCHNEIDER, Wholesale Florist,
ATTICA, Wyoming Co., N. Y.

Carnations.

Field plants all sold.

Orders solicited for early delivery of **ROOTED CUTTINGS** in varieties suitable for summer blooming.

C. J. PENNOCK,

The Pines. KENNETT SQUARE, Chester Co., PA.

50,000 Carnations.

ROOTED CUTTING READY.
NO "RUST."
SEND FOR LIST. . . .

Wm. Swayne,
P. O. Box 226. KENNETT SQUARE, PA.

CARNATIONS AND VERBENAS.

ROOTED CUTTINGS.

We have a large stock of Daybreak, Puritan, Edna Craig, Aurora, McGowan, Nellie Lewis, and other leading varieties. Also immense stock of Mammoth Verbenas.

Send for prices on what you want. Catalogue ready about January 15th. Send for it.

VICK & HILL, Rochester, N. Y.

CARNATIONS

Ready February 15th.

DAYBREAK..... $2.50 per 100
SILVER SPRAY, McGOWAN, HECTOR, LADY EMMA, GARFIELD, PORTIA, TIDAL WAVE.$2.00 per 100

Stock free from disease. Order now or you wont be in it.

LAKE GENEVA FLORAL CO., Lake Geneva, Wis.

CARNATIONS.

Fourteen houses planted to carnations, all of which are under my own special care and supervision, so that I can guarantee all the cuttings sent out as first-class.

The varieties I grow are Daybreak, Lizzie McGowan, Silver Spray, Grace Darling, Aurora, Portia, Edna Craig, Fred. Dorner, J. R. Freeman, Golden Triumph, Annie Pixley.

Not a big list but a mighty good list. Come and see them grow, or write to me for prices, stating how many you will want of each variety and when they are to be delivered. I think we can make a deal that will be satisfactory to us both.

L. B. 496. **ALBERT M. HERR, LANCASTER, PA.**

ANNIE PIXLEY.

From a commercial point of view right now at Christmas I can say for this carnation that it is the finest I ever grew. With only ordinary culture I can cut stems twenty inches long, the flowers are large, the calyx has never burst, the plants are more than ordinarily strong and healthy and the color is just right, one of those pleasing shades of light pink that people can't help but buy.

Awful strong claims to make but if you will try it you will have to acknowledge they are none too strong.

Orders will be filled in rotation beginning now, at **$12 00 per 100; $100.00 per 1000.** 25 at 100 rates; 250 at 1000 rates. As next year is another year, I do not intend to ruin my stock by over propagation to fill orders. Be wise.

Terms cash before shipping, or C. O. D.

COME AND SEE

THE NEW AND BEAUTIFUL FANCY CARNATION

"HELEN KELLER"

(A very much improved "Chester Pride",) **GROWING AND BLOOMING.**

It is Healthy and Productive. In form, size, and elegance nothing in sight can approach it. It is the greatest novelty among Carnations up to date.

PAUL DAILLEDOUZE (of Dailledouze Bros.), says: "We must have at lenst 1000 of this. She's a dandy."
JOHN WELSH YOUNG said: "Let me have 1000 just as soon as possible."

Two houses filled with this sterling new variety are worth going many miles to see: One at Summit, N. J.; the other at Wyndmoor near Chestnut Hill, Phila., where inspection is invited.

Orders booked now and filled strictly in rotation, commencing March 15, 1894. Strong Rooted Cuttings, $3.00 per dozen; $12.00 per 100; $90.00 per 1000.

EDWIN LONSDALE,
CHESTNUT HILL, PHILA.

JOHN N. MAY,
SUMMIT, N. J.

"COME AND SEE THE BOYS"

—AND—

THE YELLOW CARNATION BOUTON D'OR.

After growing this variety for the past three winters we are convinced that it is the best Yellow Carnation ever introduced.

WHAT WE CLAIM:—That it is decidedly a good, strong grower and free bloomer; color a beautiful yellow penciled with dark carmine. That it is of the best form and fully as large as Buttercup. That the calyx is pertect, the stem long and stiff, and the foliage possibly better than that of any other carnation.

PRICE, $2 per Doz.; $10 per 100; $75 per 1000. ROOTED CUTTINGS READY MARCH 1, 1894.

Orders filled in strict rotation. Come and see it grow and be convinced. Only one hour from New York City.

Dailledouze Bros., Flatbush, L. I., N. Y.

Rooted Cuttings. CARNATIONS. Rooted Cuttings.

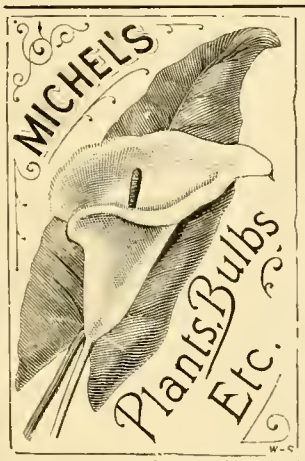
ALL THE BEST VARIETIES IN CULTIVATION.

FINE STOCKS OF DAYBREAK, EDNA CRAIG AND CARTLEDGE.

NO DISEASE! NO RUST!

Catalogues ready January 1st, '94. Correspondence solicited.

Address **H. E. CHITTY, Paterson, N. J.**



Write for Wholesale List.

MICHEL PLANT AND BULB CO., ST. LOUIS, MO.

Mention American Florist.

FOR IMMEDIATE DELIVERY

40,000 Carnation Cuttings,

of all the best varieties. Send for our list.

HANCOCK & SON, Grand Haven, Mich.

CHOICE SEEDS.

PETUNIA FIM. FL. PL.

The largest and finest strain of double fringed and mottled Petunias to be had. All who see these Petunias say they are the finest they ever saw. Selected specially for florists. Extra.

VERBENA GRAND.

This fine strain of Mammoth Verbenas gives perfect satisfaction to my many customers and is justly claimed to be the finest in cultivation. Florets an inch in diameter, in immense umbels, of the finest colors.

Per liberal Trade Packet of each of the above, 25 cts. 3 pkts. 60 cts.; 6 pkts. $1.00.

JOHN F. RUPP, Shiremanstown, Pa.

THE ASSOCIATION FLORA,

BOSKOOP, HOLLAND.

NOW ON HAND IN NEW YORK:

CLEMATIS in sorts, 3 years..... per 100 $25.00
SPIRÆA JAPONICA..... " 4.00
DIELYTRA SPECTABILIS..... " 4.00

Lilium speciosum, Pæonias Rhododendrons, Azaleas H. P. Roses, in best varieties, per 100 $9 00: Abel Carriere, Alfred Colomb, Anna Alexieff, A. de Diesbach, B. Rothschild, Fisher Holmes, Gen. Jack, La France, Mme. G. Luizet, Mme. Plantier, Magna Charta, Paul Neyron, P. C. de Rohan, Perle des Blanches, Ulrich Brunner and others. Catalogue on application.

P. OUWERKERK,
206 Cambridge Ave., JERSEY CITY, N. J.

Ferns and Smilax.

Will you kindly inform me whether or not it is barmful to syringe ferns overhead or not and if liquid cow manure is good for them, and if it is any way beneficial to smilax, as mine is growing so spindly, if you will kindly inform me should be much obliged. SUBSCRIBER.

Ferns in general are better without syringing, and liquid manure is not very beneficial to them, unless it be in the case of certain strong growing species that have become very much pot-bound, and even then the manure should not be very strong.

Smilax will be benefitted by watering with liquid manure occasionally after the plants have become well rooted, but if the plants referred to are very weak and spindly it is possible that they have received too much water before becoming established in the soil, and if so may not be able to assimilate much manure yet.

W. H. TAPLIN.

Lady Campbell Violet.

Your Phila. correspondent "L" has struck the aspiring Lady Campbell a rather hard blow in stating that it is "about the same shade of color as the old Neapolitan."

I have before me as I write flowers of M. Louise, Lady Campbell and Robt. Garrett. Unfortunately I could not secure Neapolitan. As nearly as I can remember it is a trifle lighter than Robt. Garrett. Between the latter and M. Louise there are a number of shades, one of which belongs to Lady Campbell, but it is much nearer M. Louise than to Robt. Garrett. This of course applies to the three varieties as grown here, they may vary in other soils. I believe Mr. Huebner, of whom I purchased my stock of L. C., claims that it is darker than M. L.

EDW. SWAYNE.

Rooted Cuttings

COLEUS, 10 sorts, **60c. per 100**

BY MAIL.

SAMPLE DOZEN, without names, mailed for 10 cts.

S. O. STREBY,
Lock Box 77,
UPPER SANDUSKY, OHIO.

ROOTED CUTTINGS.

	Per 100
Alternantheras, Versicolor, Rosea nana, Aurea nana, Tricolor and P. Major	$.50
Achyranthus of sorts	1.00
Coleus of sorts	.50
" best new and old	1.00
Parrots Feather, Fuchsias	1.00
Mexican Primroses, 3 kinds	1.00
Heliotrope	1.00
Flitonia, red veined, $2.00; silver veined	1.50

PLANTS.

Alternantheras, full of cuttings	3.00
Begonias, assorted; Lantanas, assorted	4.00
Fuchsias, ass't; Heliotrope, ass't	$3.00 and 4.00
Abutilons, assorted	4.00
Echeveria glauca	$2.00 and 3.00
" Extensa globosa, 6 to 12 in. across 25 & 50c. ea.	
Achyranthus, assorted	3.00
Coleus, assorted	$2.00 and 3.00
Hibiscus, assorted	4.00
" Schizopetalus	6.00
Anthericum picturatum	per dozen, 75c.

ROBT. S. BROWN & SONS,
Box 99. KANSAS CITY, MO.

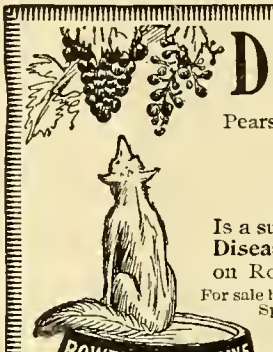
You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.



WHY do so many Canna Growers say they have a Yellow Canna "As good as Florence Vaughan?"

Robert Craig, Chairman of Committee of Awards in Floriculture at World's Fair, says, Dec. 6, 1893: "Florence Vaughan has proved to be all that was claimed for it; it is still far superior to any Yellow Canna in commerce."

VAUGHAN'S SEED STORE,
New York. CHICAGO.



Do Your Grapes Rot?

Pears blight, crack or spot? Are your Apples, Plums, and Cherries imperfect? Powell's

COPPERDINE

Is a sure preventive. It is guaranteed to stop all Fungus Diseases; prevents Rust on Carnations and Black Spots on Roses.

For sale by all Seedsmen, 50c. a quart, $1.50 per gallon. Used largely diluted. Special prices in large quantities to Florists and Nurserymen. *Send for circular.* **Powell's Mildew Mixture** prevents Mildew on Flowers and Fruits, and Rust on Oats,

W. S. POWELL & CO., Baltimore, Md., U. S. A.

HOWARD'S Royal Splendor VERBENA SEED.

New Crop, Home-grown, Honest, Reliable.

Selected with great care from plants producing the largest trusses, finest substance of petals, with most brilliant and desirable colors.

EVIDENCE OF QUALITY.

Editor Wm. Falconer in GARDENING:

"On Oct. 24 we received a box containing six bunches of blossoms of Verbenas from A. B. Howard, Belchertown, Mass. The flowers were very beautiful, and represented over fifty distinct shades of color; the trusses were large and the petals of fine substance. We had seeds of this strain from Mr. Howard and raised a number of plants from them last spring and the plants have been in bloom all summer and are in excellent flower still (Oct. 25), and they are a beautiful and multi-colored assortment."

C. B. Willard, Oswego Falls, N. Y., says: "I tried your Royal Splendor Verbenas last year and never had as many nice plants or such beautiful flowers from a package of seed, though I have tried all the leading seedsmen. The colors were gorgeous, and such a variety!"

Choice mixed colors, per trade pkt. 50c; ¼ oz. $1.00; per oz. $4.00.

A. B. HOWARD, Seed Grower and Florist, BELCHERTOWN, MASS.

Mention American Florist.

BARGAINS,

GOOD PLANTS, and ready to ship NOW.

	Per 100
Geraniums, best bedders, strong, 2-inch	$ 2.00
" La Favorite, best double white, 2-in.	2.00
" Mme Sallerol, very stocky, 2-inch	1.50
" Rose Scented, 2-inch	2.00
" Bronze, strong, 2-inch	3.00
Coleus, splendid assortment, 2 in.	$12.50 per 1000, 1.50
" Golden Bedder (alone), strong, 2-inch	2.00
Heliotropes, 2-inch	2.00
Fuchsias, good assortment, 2-inch	3.00
Farleyense Fern plants, 3-inch, 25c. each.	
Canna Mme. Crozy, dry bulbs, $1.00 per dozen.	

I have the following in **ROOTED CUTTINGS,** ready to ship any day.

Geraniums, best bedders, 5 to 20 varieties	$ 1.25
" La Favorite, best double white	1.25
" Rose Scented	1.25
" Mme. Sallerol	1.00
Coleus, about 20 splendid varieties in mixture	.50
" Golden Bedder (when ordered alone)	.75
Double Sweet Alyssum	.50
Heliotropes, best purple varieties	1.00
Verbenas, best varieties	.75
Begonia Metallica	2.00
Carnation Portia	1.00
" Lizzie McGowan	1.00
" Puritan	1.25
" Nellie Lewis	1.50
" Fred. Dorner	1.25
" Grace Wilder	1.00
" Aurora	1.50
" Anna Webb	1.00

N. S. GRIFFITH, Independence, Mo.

Independence is well located for shipping, being 8 miles East of Kansas City, Mo.

GERANIUMS.

At least 40,000 in flats, at	$15.00 per 1000
At least 20,000 in 2½-inch pots	20.00 per 1000
A few thousand Coleus in 2½-inch pots	20.00 per 1000
A few thousand Double White Petunias, 2½-inch pots, at	2.50 per 100
Ageratum, blue and white	2.00 per 100

At these prices the selection of sorts to remain with us.

The above are in fine condition.

Cash with the order.

J. E. FELTHOUSEN,
370 Van Vranken Avenue, SCHENECTADY, N. Y.

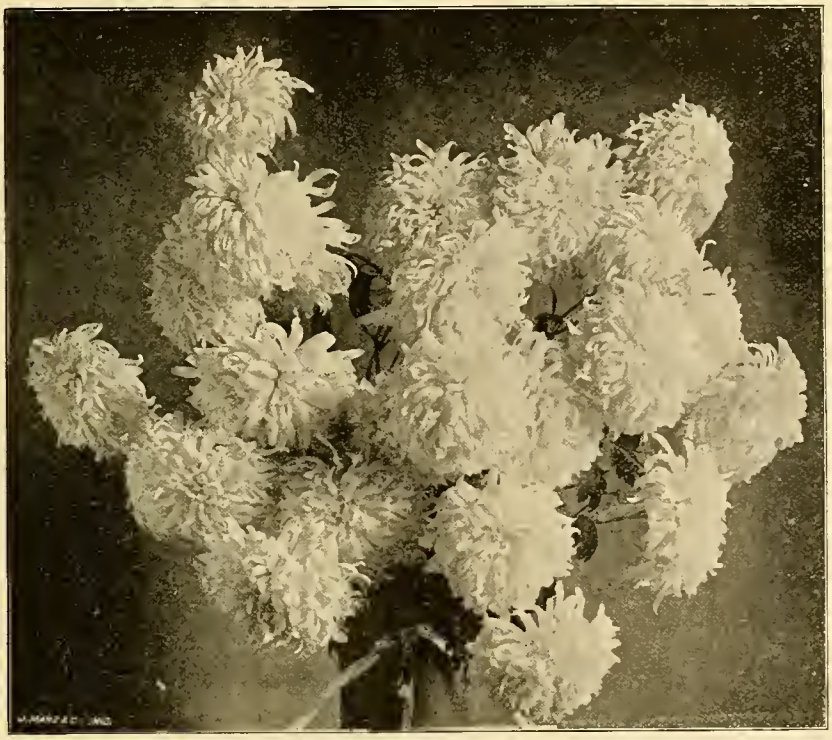
PALMS.

150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

Address **GEORGE WITTBOLD,**
1708 N. Halsted St., CHICAGO.



In the Front Rank!

NEW WHITE

CHRYSANTHEMUM "MUTUAL FRIEND."

It is sure to be a prize winner and a leading variety for '94.

FIRST PRIZE AND CERTIFICATE of MERIT MASS. HORT. SOCIETY, '93.

Orders booked now for March delivery, 50c. each; $4.00 per dozen. At these prices all should try it. We know it will please. Send for descriptive circular.

MANN BROS., Randolph, Mass.

NEW.

Our Trade Catalogue will contain a complete list of the new

CHRYSANTHEMUMS —AND— CARNATIONS

For 1894 as well as the best Standard sorts. Also the **NEW ROSE MRS. W. C. WHITNEY**, will be mailed January 15th. See it before placing your order.

NATHAN SMITH & SON,
167 W. Manmee St., ADRIAN, MICH.

NEW CHRYSANTHEMUMS.

SPECIALTIES: Including The Queen, Niveus, Mrs. F. L. Ames, Golden Wedding, Judge Holtt, and Good Gracious. Twelve plants for $1.00.
NOVELTIES; Including The World, White Eagle, Monarch of Ostrich Plumes, Silver Waves, and Pascha. Fourteen plants for $1.00.
GENERAL LIST: Including many new varieties. Sixteen plants for $1.00.
Now ready for delivery. Send for catalogue.

M. B. LITTLE, GLENS FALLS, N. Y.

CANNAS. CHRYSANTHEMUMS.

The best only, at lowest trade prices. Catalogue No. 15 on application.

T. H. SPAULDING, Orange, N. J.

ROOTED CUTTINGS.

Chrysanthemums AND Carnations.

Write for list and prices. Prices to suit the times.

Address **J. G. BURROW, Fishkill, N. Y.**
Mention American Florist.

CLEMATIS.

I have choice lot of nice, well rooted, one year plants, very suitable for potting now; these will make fine strong plants by sales time, grown in cold house and treated same as H. P. and other roses, in variety, Jackmanni, Duchess Edinburg, Henryii, C. Lovelace, Fairy Queen, Lady Neville, Gem, P. Alexandra and others, $1.50 per doz.; $12 per 100. Two year in var. $3 per doz.; $20 per 100.

F. A. BALLER, Bloomington, Ill.

New Chrysanthemum, MRS. J. GEO. ILS,

A CALIFORNIA SEEDLING.

Flowers sent from San Francisco to the Chicago Show awarded a MEDAL.

A grand white, of remarkable substance, size and depth of flower. See Illustration in AMERICAN FLORIST of November 16th. The very vigorous habit, and our large stock of this novelty, enables us to assure the trade of good plants, and to guarantee safe arrival. To be sent out the 1st of March, 1894, at the following prices to the trade:

75 cents each; $7.50 per 12 plants; $14 per 25 plants; $25 per 50 plants; $40 per 100.

ORDERS BOOKED NOW BY

JOHN H. SIEVERS, 25 Post St., SAN FRANCISCO, CAL.

HOW TO GROW CUT FLOWERS.

A PRACTICAL TREATISE ON

THE CULTIVATION OF THE ROSE,

And Other Flowering Plants for **Cut Flowers**, sent to any address upon receipt of **$2.00.**

M. A. HUNT, Terre Haute, Ind.

100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.

NO RUST OR MILDEW.

Packed light, and satisfaction guaranteed. Send for circular. . . .

We are the largest growers of Verbenas in the country. Our sales reaching last year 215,500. Our plants this year fully equal, if not surpass, any we have ever grown.

J. L. DILLON, Bloomsburg, Pa.

E. G. HILL & CO.,

Wholesale Florists

RICHMOND, INDIANA.

DO YOU KNOW . .

THAT YOU CAN GET

20 CANE STAKES FOR 1 CENT

A foot in length by simply using a sharp saw on a bundle of our best.

BRACKENRIDGE & CO.,
304 W. Madison St., BALTIMORE, MD.
Mention American Florist.

Verbenas

SPECIAL OFFER.

		Per 100	Per 1000
Unsurpassed Mammoths,	2¼-inch pots,	$3.00	$25.00
" "	rooted cuttings,	1.25	10.00
Genera collection, named,	" "	1.00	8.00
" " "	2¼-inch pots...	2.50	20.00
H. P. Roses, dormant, strong		6 00	75.00
Tea " " "		6.00	50.00
Forcing "	3-inch pots, "	6.00	50.00

WOOD BROTHERS,
Fishkill, N. Y.
Mention American Florist.

VERBENAS, stock plants	$2.50 per 100
HYDRANGEAS, Easter forcing stock.	
4½-inch pots	10.00 per 100
" strong	25 to 35 cts.
CYCLAMENS	6 to 10 cts.
REX BEGONIAS, 3-inch	6 cts.
SWORD FERNS, 3-inch	8 cts.
GREVILLEA ROBUSTA, fine plants.	15 cts.

McCREA & COLE, BATTLE CREEK, MICH.

Syracuse, N. Y.

We were very pleasantly surprised with the results of the Christmas trade in this vicinity, it being fully equal to past years. The demand for holly and evergreens was in excess of supply. Loose cut flowers sold well; roses, violets and carnations were in brisk demand, the stock of carnations being exhausted long before the day was over. There was but small demand for baskets or made-up work, almost everything being sold loose. Romans and paper whites went slow, most of the establishments here having a surplus left on hand.

Customers as a rule bought more sparingly than in the past, but the use of flowers seemed far more general. Plants in bloom sold well and the very mild weather made delivery comparatively easy. In fact we think the fine weather had much to do with increasing the sales, inducing many to come on the streets, see the stock and thereby become purchasers, who under other circumstances would have remained at home and forgotten that holly, Christmas greens and flowers were necessary adjuncts to the full enjoyment of the holiday.

Prices were lower than in past years, with the exception of violets, which, owing to their scarcity, sold at good figures. The demand for good flowers at moderate prices is on the increase and the disposition to pass inferior stock even at low rates is becoming pretty general.

On the whole the Christmas trade for '93 has been quite satisfactory considering the general depression in most other lines of business. P. R. QUINLAN.

Denver.

The entire trade during the holidays has been a surprise to all. The call has been equal to any preceding year. Every one has had to refuse or cut orders. Prices of course were good. Carnations seem to have the popular call; $1.00 to $1.25 for good pinks. Holly and wreathing are handled everywhere, and yet the florists seem to have had all the orders they could attend to. Cloudy and cold has been the report for 10 days.

Mr. Given is down again. He could not keep away from business, and now after a week the report is that he is gaining.

A visit to Mr. Glauber's place will do anyone good. Everything speaks for the knowing care he gives his plants. His carnations are said to be the best in our market. LYLE.

UTICA, N. Y.—Owing to increasing business, Hart & Crouse, makers of the Royal hot water heaters, are making large additions to their factory.

Zirngiebel's Seeds for Florists.

QUALITY GUARANTEED.

GIANT MARKET AND GIANT FANCY PANSIES.

EARLY AND LATE ASTERS, all colors.

EXTRA EARLY DWARF WHITE STOCK, in trade packages, at $1.00 each.

DENYS ZIRNGIEBEL, Needham, Mass.

200,000 Pansies.

The Jennings strain of large flowering and fancy pansies may still be had in any quantity wanted. Plants are field grown, and are fine and stocky. Finest mixed, by Express, $5.00 per 1000; 5000 $20.00; 10,000 $35.00. Small plants by mail, 60c. per 100.

Seed, pure white, yellow or mixed, $1.00 per trade pkt. of 2,500 seeds. The leading strain. The largest sales. Always satisfactory.

ADDRESS **E. B. JENNINGS,**

WHOLESALE PANSY GROWER,

Lock Box 254. SOUTHPORT, CONN.

AFTER CHRISTMAS, WHAT?

Plenty of trade if you only carry the right goods.

STOCK UP NOW

— WITH —

BASKETS

for the Winter Trade. We are Manufacturers and carry a large supply, and Novelties are constantly being added. . . .

Don't forget our Special Low Prices on Prime Cape Flowers, Immortelles and Metal Goods.

SEND FOR CATALOGUE.

H. BAYERSDORFER & CO.,

56 N. 4th St.,

PHILADELPHIA, PA.

☞ WHOLESALE ONLY. . . .

Mention American Florist

MARSCHUETZ & CO.,

Florists' Supplies,

23 & 25 N. 4th St., PHILADELPHIA, PA.

Send for Catalogue.

ERNST KAUFMANN & CO.

Florists' Supplies,

113 N. 4TH STREET,

PHILADELPHIA, PA.

HUNTINGTON SEED CO.

Florists' : Supplies,

66 E. WASHINGTON ST.,

INDIANAPOLIS, IND.

Standard Flower Pots, Dried Grasses, Fancy Baskets Metal Designs. Trade Catalogue mailed free.

THE GREAT ANTIPEST.

For particulars, see next week.

R. W. CARMAN, GEN'L AGT.,

291 Amity Street, FLUSHING. Queens Co., N. Y.

THE PERFECT DRAINAGE

BENCH TILE

For circulars, etc., address

W. P. WIGHT, Upland Greenhouses,

Send your business card. MADISON, N. J.

HAIL LOCK THE DOOR BEFORE THE HORSE IS STOLEN. *DO IT NOW.*

JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

Supplies of all Kinds, such as Immortelles, Cape Flowers, paper pressed Hartford and Maidenhair Ferns, Wheat Sheaves, Flower Baskets, Pot Holders, Plant Stands, Fern Dishes, etc., etc.; all quoted in our beautifully and richly illustrated new Trade List mailed free. Also

Metal Designs, the best winter cemetery decoration, in rich assortment of tasteful designs: Wreaths, Crosses, Anchors, Hearts, etc., in green or white foliage.

Cycas Leaves, (Sago Palm), natural prepared, equal to fresh cut in appearance, according to size at 40c., 45c., 50c., 60c. and 75c. each.

Flower Seeds in the best and choicest strains for florists' use. Our new 1894 Catalogue is ready and mailed; if it did not reach you, send for a copy. Address

August Rolker & Sons,

136 & 138 W. 24th St., P. O. Station E. **New York.**



Florists' Pins

Glass Heads, in Black or White.

PRICES:

1, 1½, 2, 2½, 3, 3½, 4 inches,

50c, 75c, $1.00, $1.25, $1.50, $1.75, $2.00 per 1000

For Sale by

August Rolker & Sons, New York.
Wm. Elliott & Sons, New York.
H. Bayersdorfer & Co., Philadelphia.
N. F. McCarthy & Co., Boston.
E. H. Hunt, Chicago.
J. C. Vaughan, Chicago.
Huntington Seed Co., Indianapolis, Ind.
W. Ellison, St. Louis.
E. W. Crook, San Francisco.
J. A. Simmers, Toronto, Ont.
Edw. Mullin, Kingston, Ont.

AUG. F. BRABANT, Manufacturer, 54 Warren Street, NEW YORK.

CUTS!

WOOD ENGRAVING,
PHOTO-ENGRAVING,
WAX ENGRAVING,
ZINC ETCHING,
HALF-TONE,
DESIGNING.

MANZ & CO.,

183 Monroe Street, CHICAGO. **ENGRAVERS.**

CATALOGUE PRINTING. ELECTROTYPING.

Done with expert ability for Florists, Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.

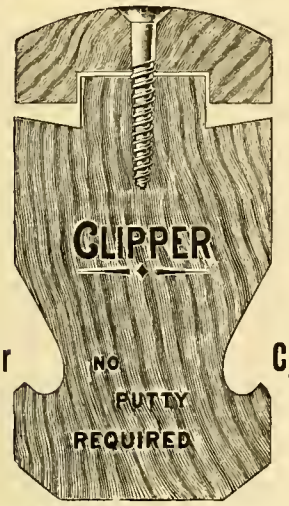
. . . HARRISBURG, PA.



Kills Mildew and Fungus Growth. What does? **GRAPE DUST.**

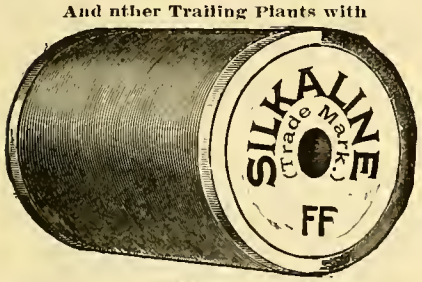
Sold by Seedsmen.

LOCKLAND LUMBER CO.



MATERIAL FOR
GREENHOUSES.
Send for Circulars and Testimonials.
Address **LOCKLAND, O.**

STRING SMILAX
And other Trailing Plants with



JOHN C. MEYER & CO.,
13 Otis St., (off Summer), BOSTON, MASS.
For sale by all leading Florists' Supply Houses.

FLORISTS' HOSE,
Made by E. W. Holt, member of the Society of American Florists.
Goodyear Rubber Store,
2 W. 14TH ST. NEW YORK.

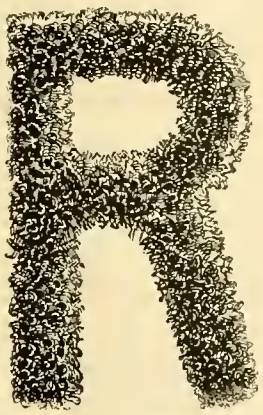
Increase Your Business
by fostering an interest in plants and flowers among the people in your vicinity. You can best do this by getting subscribers to

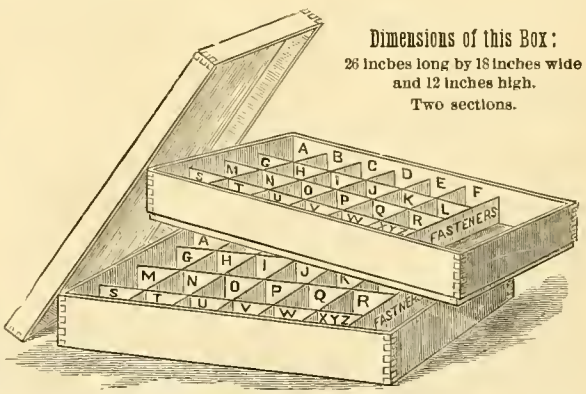
GARDENING . . .
which tells people how to get the most satisfaction out of their gardens, and stimulates them to enlarge and extend their gardening operations.

$1.00 A YEAR is the subscription price of this paper, which is issued twice a month, is handsomely and truthfully illustrated, is thoroughly practical, absolutely free from wind and gush and grinds no axes for anyone.

SPECIAL LOW RATE to florists who will act as agents. We want an agent in every city and town in America. Write for terms now to

THE GARDENING CO.
Monon Building, CHICAGO.





Dimensions of this Box:
26 inches long by 18 inches wide and 12 inches high.
Two sections.

With an order for 500 letters, we furnish a box made of wood, nicely stained and varnished, such as is represented in the cut.

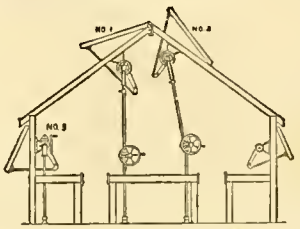
BOSTON FLORIST LETTER CO.
Manufacture THE BEST LETTERS IN THE MARKET.
Sizes 1½-in. and 2-in. 2.00 per 100. Patent fastener with each letter.
OUR NEW SCRIPT LETTER, $4.00 per 100.
N. F. McCARTHY, Treas. & Mangr. | Address 13 Green St., **Boston, Mass.**
Address all correspondence to 1 Music Hall Place.

We have a new **FASTENER** which we consider a decided success. Any customers having old style fasteners which they wish to exchange, can do so without additional cost by writing us.

AGENTS.
A. Rolker & Sons, New York.
Marschuetz & Co., 25 N. 4th St., Phila., Pa.
F. E. McAllister, 22 Dey St., New York.
A. D. Perry & Co., 33 Warren St., Syracuse, New York.
Ernst Kaufmann & Co., 113 N. 4th St., Phila.
H. Bayersdorfer & Co., Philadelphia, Pa.
A. C. Kendal, 115 Ontario St., Cleveland, O.
J. A. Simmers, Toronto, Ont., Agent for Canada.
E. H. Hunt, 79 Lake St., Chicago, Ill.
Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.
H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.
T. W. Wood & Sons, 6th and Marshall Sts., Richmond, Va.
Jas. Vick's Sons, Rochester, N. Y.
C. A. Kuehn, 1122 Pine St., St. Louis, Mo.
D. B. Long, Buffalo, New York.
C. F. Huntington & Co., Indianapolis, Ind.
Z. De Forest Ely & Co., 1024 Market St., Philadelphia, Pa.
Portland Seed Co., 171 2d St., Portland, Ore.

These Letters are handled by all the Wholesalers in Boston.

VICTORY! VICTORY! VICTORY!
The only Certificate of Merit awarded for ventilating apparatus at the St. Louis Convention was to the
POPULAR STANDARD VENTILATING MACHINE
The florist's friend in working and prices.



No repairs for 5 years. no chains to break as is the result with others.
Opens Sash uniform on 100 foot houses. A new device.
Send for Catalogue and Estimates.
E. HIPPARD, Youngstown, Ohio.

J. N. STRUCK & BRO.
Manufacturers of
• CYPRESS •
Greenhouse Material,
LOUISVILLE, KY.

Send orders for . . .
CLEAR CYPRESS
Greenhouse Material
from bottom of gutter up.
Correspondence solicited. Estimates cheerfully furnished.
LYMAN FELHEIM, ERIE, PA.

— OUR —
SASH LIFTER AND HINGES
will do the work and cost you less than any other. Send your name and address and we will mail you description and price.
BAY STATE HARDWARE CO.
272 Freeport Street BOSTON, MASS.
Mention American Florist.

TO TAKE PLACE OF WIND MILLS

HOT AIR PUMPING ENGINES

A Windmill
Is unreliable because it depends upon the elements for its power; hydraulic rams also depend upon favorable conditions and waste as much water as they secure. Steam pumps require skill and hand pumps demand labor and time. The
DE LAMATER-RIDER OR DE LAMATER-ERICSSON Hot-Air Pumping Engines
are especially designed for pumping water, and from shallow streams or any kind of well. They are simple, safe and reliable, require no steam and have no valves. They require very little heat to operate them, and can be arranged for any kind of fuel.
Send for illustrated catalogue to
THE DE LAMATER IRON WORKS,
87 South Fifth Av.,
NEW YORK, N. Y.

GLASS
which is absolutely perfect for modern greenhouse construction.
ROCK BOTTOM PRICES.
Send for Estimates. Satisfaction Guaranteed.
REED GLASS CO.,
65 Warren Street, and 46, 48 & 50 College Place,
NEW YORK CITY.

Worcester, Mass.

On the whole the Christmas trade was equal to that of last year, perhaps a trifle better in some respects. The supply as a rule was fully adequate to the demand, with the possible exception of Mermets, Beauties and Gontiers. There was a rather small demand for Lilium Harrisii, which were plentiful and good. Von Sions, paper white and Campernelles were brought in in large quantities and sold well for $1.25, $1 and 50 cents respectively. Carnations are just as popular as ever. Grace Wilder easily took the lead, though Daybreak sold at sight. McGowan is the best selling white, with Silver Spray a close second. The price of carnations advanced to 75 cents a dozen. Violets were plentiful and sold readily at $3 a hundred, and a few good mums were in the markets, which brought from $1.50 to $2 a dozen. Stevia, Romans, bouvardia, callas, etc. we had in quantity and got rid of most of it at slightly advanced prices.

There was a noticeable falling off in church and other plant decorations, probably caused by the large number of unemployed which the churches are helping. The demand was almost entirely for cut flowers. We had an unusually good trade in palms, ferns and foliage plants; this branch of the trade is improving greatly.

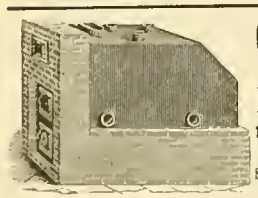
Holly sold better than ever before, and although we laid in larger quantities than last year the supply was short. Laurel and evergreen wreaths were in good demand, but mistletoe sales were small. It don't pay to handle mistletoe; the general public prefer holly.

Although New Years day is not a legal holiday in Massachusetts yet we had a splendid trade all along the line. There was a very noticeable increase in the observance of the day and in the number of society people who received during the afternoon and evening. This of course meant decorations and trade to the worthy florist, and consequently our receipts went considerably over those of last year.

Everything was plentiful with the exception of roses, which were in very short supply. Prices were a little lower than those of Christmas though roses held pretty nearly the same. Violets dropped to $2.50 a hundred retail, and carnations to 50 cents a dozen, though we got 75 cents for a few specials. Red carnations are especially popular this year and we are getting a lot of E. G. Hills that are hard to beat, fine flowers on strong, long stems. SEEDLING.



GREENHOUSE HEATING
AND VENTILATING.
Superior Hot Water Boilers.
JOHN A. SCOLLAY,
74 & 76 Myrtle Ave., Brooklyn, N.Y.
☞ Send for Catalogue.



GREEN-HOUSE
HEATING,
MYERS & CO.
1518 & 1520 S. 9th St.,
PHILADELPHIA.
Send for catalogue and price list.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

H. M. HOOKER COMPANY,
57 and 59 W. Randolph Street, CHICAGO.
NATURAL GAS MADE GLASS,
FOR GREENHOUSES.
Write for latest prices.

"Standard" Flower Pots.
As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address
The Whilldin Potterv Company,
BRANCH WAREHOUSES: 713, 715, 717 & 719 Wharton St., Philadelphia, Pa.
Randolph Ave. and Union St., Jersey City, N. J.
Jackson Ave. and Pearson St., Long Island City, L. I.

STANDARD FLOWER POTS
Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.
A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.
We desire to announce the dissolutiou of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plaut and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intentiou to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manuer satisfactory to all.
Send for price list and samples and we know you will give us an order.
SYRACUSE POTTERY CO. OFFICE: 403 North Salina Street, SYRACUSE, N. Y.

STANDARD FLOWER POTS.
OLD RELIABLE MAKE OF
ELVERSON, SHERWOOD & BARKER.
Write for Catalogue and Price List.
PITTSBURGH CLAY MFG. CO. New Brighton, Pa.

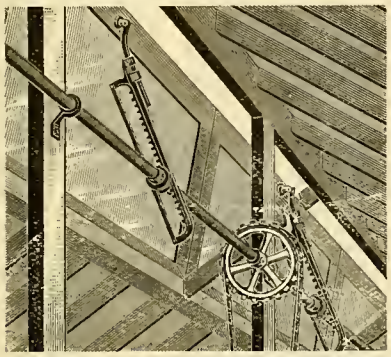
STANDARD FLOWER POTS
Our new **Pottery,** new **Machinery,** the very **best Clay** in the **Country,** and our new **Patent Kilns,** all combined, make the **best Standard Pot in the market.** Send for price list.
PARMENTER MF'G COMPANY,
GEORGE MESSINGER, Manager. East Brookfield, Mass.

FRENCH GLASS For CONSERVATORIES, ROSE HOUSES, Etc. Etc.
VANHORNE, GRIFFEN & CO.,
Importers of PLATE and WINDOW GLASS. Manufacturers of BENT GLASS and FRENCH MIRRORS.
131-133-135-137 FRANKLIN STREET, NEW YORK.
Note—Imported Glass is used in the best grade of Greenhouse building

ESTABLISHED 1866.
FLORISTS WIRE DESIGNS
MANUFACTURED BY
N. STEFFENS
335 EAST 21ST ST. NEW YORK.

SEE HERE BROTHER FLORIST!

Aren't you tired going through your houses two or three times a day year after year and lifting your ventilating sash one at a time and propping them up with sticks or pots, with a chance of having sash blown off and broken glass to pay for? If you are



We have got just the thing you need, the **NEWEST** and **BEST** thing out. "The New Departure" for **about half** the cost of the old style. Send for Descriptive Catalogue to

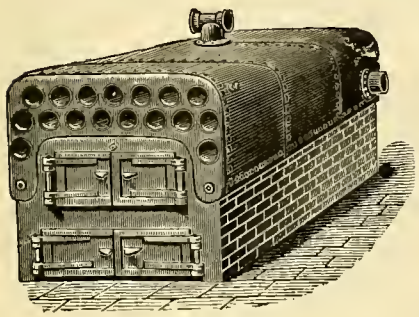
J. D. CARMODY, Evansville, Ind.

ESTABLISHED 1854.

DEVINE'S BOILER WORKS.

THE FLAT TOP TYPE

Wrought Iron Hot Water Boilers



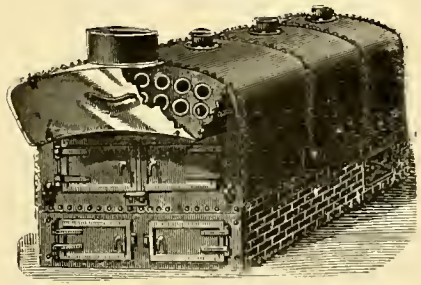
Capacity from 350 to 10,000 feet of four-inch pipe
SEND FOR NEW LIST.

FRANK DAN BLISH, Att'y,
OFFICE, 189 STATE STREET.
WORKS, 56th & WALLACE STREETS,
CHICAGO.

KROESCHELL BROS.
IMPROVED

Greenhouse Boiler,

41 to 55 Erie St., CHICAGO.



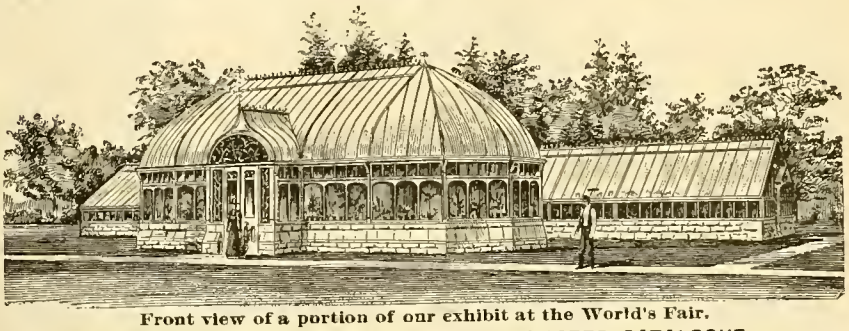
Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

LORD & BURNHAM CO.

Horticultural Architects and Builders,

STEAM AND HOT WATER HEATING ENGINEERS.

☞ Plans and estimates furnished on application.



Front view of a portion of our exhibit at the World's Fair.

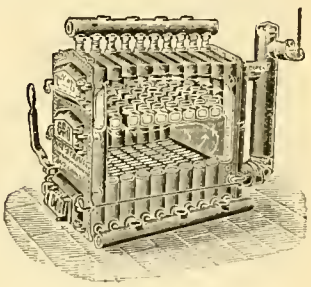
. . . SEND FOUR CENTS POSTAGE FOR ILLUSTRATED CATALOGUE. . . .

LORD & BURNHAM CO., Irvington-on-Hudson, N. Y.

SOLD ON THEIR MERITS AND NOT ON THEIR ANTIQUITY.

ROYAL HEATERS

THE RIGHT KIND of BOILER for a GREENHOUSE.

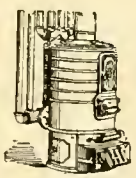


HART & CROUSE,

UTICA, N. Y.

Gurney

HOT WATER HEATERS AND RADIATORS FOR HEATING Dwellings, Public Buildings, Etc. BY HOT WATER CIRCULATION.



GURNEY.

Best for Greenhouses.

Our illustrated book "How best to Heat our Homes" gives the reason why. We send it free.

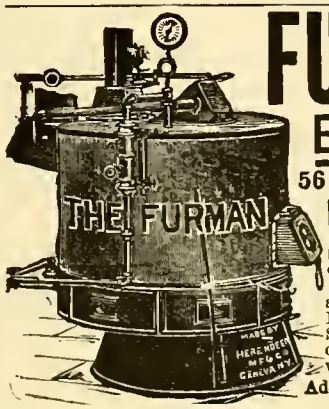
THE BEST IS CHEAPEST.

Gurney Hot Water Heater Co.

HEAD OFFICE:
163 Franklin St., Boston, Mass.
BRANCH OFFICE:
59 Wabash Ave., Chicago, Ill.
SELLING AGENCIES:
Johnson & Co., 71 John St., New York.
J. C. F. Trachsel, 246 Arch St. Philadelphia.



DOUBLE CROWN



FURMAN BOILERS

Economical — Substantial — Safe.

56 STYLES AND SIZES—BURNS HARD OR SOFT COAL.

Modern Hot-Water Heating

These Boilers have a high reputation for Staunchness, Durability and Safety, and are **GREAT COAL SAVERS.** Minimum Friction and Maximum Velocity only obtained by **VERTICAL WATER CIRCULATION.** Send for new 150-page book giving full particulars and a great deal of valuable information on modern Heating and Ventilation, with plans and tables for correct hot-water work. Mailed free.

Address **HERENDEEN MFG. CO., 26 Vine Street, GENEVA, N. Y.**

Index to Advertisers.

Adv. Rates, etc.....522
Allen C E.....520
Baller F A 527
Barnard W W & Co....524
Bayersdorfer H & Co..528
Bay State Hdw Co.....529
Bonsall Jos E & Son...523
Boston Letter Co 529
Brabant Aug F.....528
Brackenridge & Co.....527
Brague L B.....521
Brown R S & Sons.... 526
Brown & Canfield.....520
Burns & Raynor.....523
Burrow J G.....527
Carman R W.....528
Carmody J D.....531
Chitty H E.....525
Corbrey & McKellar...522
Dalliedouze Bros..... 525
Deamud J B & Co.....523
De Lamater Iron Wks.529
Devine's Boiler Wks...531
Dillon J L.....527
Dreer H A... 524
Elliott W H.....522
Ellison Wm.....522
Ely Z De Forest & Co..524
Felheim Lyman.....529
Felthousen J E.....526
Forstermann L 521
Gardening Co The.....529
Goodyear Rubber Store 529
Griffith N S.....526
Gurney Heater Co.....531
Hall Ass'n.....528
Hammond Benj.....528
Hancock & Son. 525
Hart James.....523
Hart Michael A.....523
Hart & Crouse.....531
Hartford H E.....521
Hartung C W & Co... 524
Herendeen Mfg Co 531
Herold des Glaubens..524
Herr Albert M.....525
Hews A H & Co.....530
Hill E G & Co.....527
Hippard E 529
Hitchings & Co.....532
Hooker H M Co.....530
Horan Edw C.....523
Howard A B... 526
Hulsebosch Bros.....524
Hunt E H..... 523
Hunt M A.....520 527
Hunter Frank D.....523
Huntington Seed Co...528
Jennings E B.....528
Joosten C H.....520
Kaufmann Ernst & Co.528
Kennicott Bros Co.....523
Kroeschell Bros 531
Kuehn C A.....522
Lake Geneva Floral Co525
La Roche & Stahl.....522
Little M B.....527
Lockland Lumber Co...529
Long Dan'l B.....522
Lonsdale Edwin.....525
Lord & Burnham Co....531
McCarthy N F & Co....523
McCren & Cole.....527
McFarland J H.....521
McFarland J H Co.....528
MacBean A S.....521
Mann Bros.....527
Manz J & Co.....528
Marsh & Co.....520
Marschuetz & Co.....528
Marvin G A.....524
May John N.....525
May L L & Co.....520
Meyer John C & Co ...529
Michel Plant & Bulb Co 525
Millang Bros.....523
Moffatt G J.....524
Muninger Jno C 532
Myers & Co.....530
Nanz & Neuner.....520
National Plant Co.....522
Neff L I.....521
Oelschig A C.....521
Ouwerkerk P.....525
Parmenter Mfg Co.....530
Pennock C J.....525
Pennock Sam'l S.....522
Pierson F R Co.....521
Pittsburg Clay Mfg Co.530
Powell W S & Co.....526
Quaker City Mach Co..532
Randall A L 523
Reed Glass Co.....529
Reinberg Bros..... 523
Roberts J H.....530
Roehrs Thos.....523
Roemer Fred.....524
Rolker A & Sons.....528
Rupp John F.....525
Sander & Co 521
Schneider Fred.....525
Scollay John A. 530
Shelmire W R.....525
Sheridan W F.....523
Siebrecht & Wadley....521
Sievers John H. 527
Situations. wants.....520
Smith Nathan & Son...527
Spaulding T H.....527
Steffens N.....530
Stemmler T W.....520
Streby S O 526
Struck J N & Bro.....529
Sunderbruch H L.....522
Sunset Seed & Plant Co524
Sutherland Geo A.....523
Swayne Edward.....525
Swayne Wm 525
Syracuse Pottery Co...530
Van Horne Griffen & Co 530
Vaughan J C.....526
Vick & Hill.....525
Weathered's Sons T W.532
Weeber & Don.....524
Welch Bros 523
Whilldin Pot Co 530
Wight W P.....528
Wittbold George.....526
Wolf E E 532
Wood Bros.....527
Woodruff W B.....522
Young John.....523
Young Thos Jr.....522
Zirngiebel D.....528

MINNEAPOLIS, MINN.—The 27th annual meeting of the Minnesota State Hort. Society will be held in the Lumber Exchange January 9 to 12. The evening session of Wednesday, January 10, will be devoted to floriculture.

WINCHESTER, IND.—Jno. D. Summers has put up a new house 20x70.

SOUTH BEND, IND.—Will D. Rettig succeeds Treanor & Rettig.

CYPRESS GREEN HOUSE MATERIAL

CLEAR

SASH

BARS

HOT BED AND VENTILATING SASH

GoodelHH 15 Dec 93
Mass Agri Col

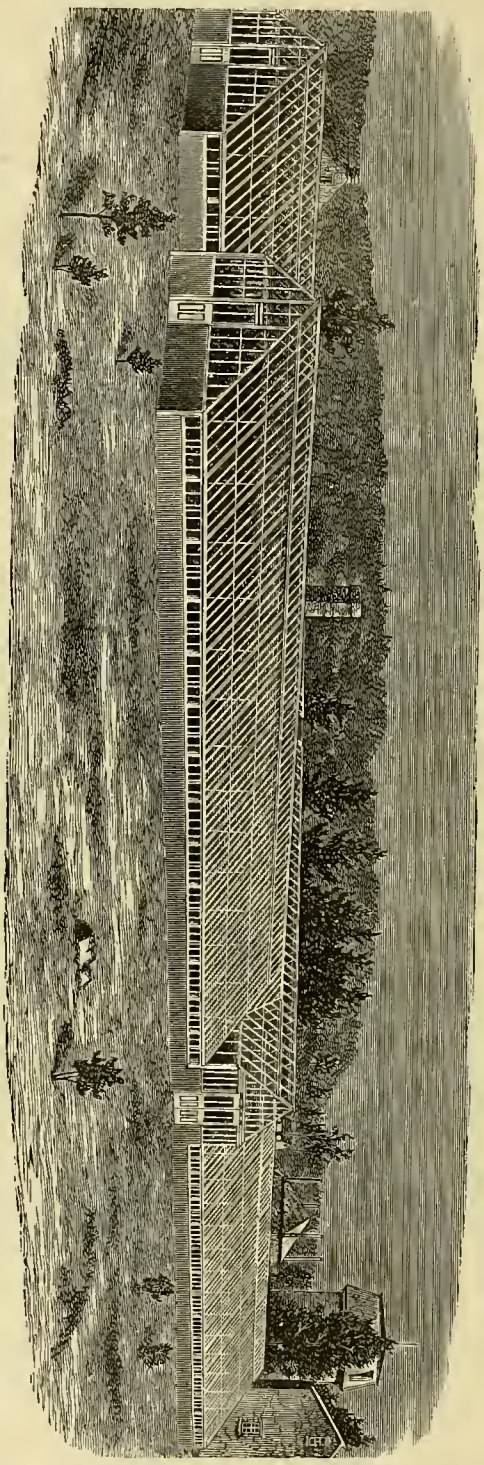
JOHN C. MUNINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

HITCHINGS & CO.

ESTABLISHED 1844.

GREENHOUSE HEATING AND VENTILATING,

HORTICULTURAL ARCHITECTURE AND BUILDING.



COMMERCIAL ROSE AND GREENHOUSES, CONSERVATORIES, PALM HOUSES, ETC., CONSTRUCTED WITH POSTS, RAFTERS, PURLINS, GUTTERS, SILLS, COLUMNS AND BRACKETS, ALL OF IRON; AND GLAZING BARS, VENTILATING SASH AND SIDING OF WOOD. ERECTED COMPLETE, OR THE STRUCTURAL IRON WORK SHIPPED READY FOR ERECTION WITH PLANS, DETAILS AND FULL INSTRUCTIONS TO ENABLE LOCAL MECHANICS TO COMPLETE THE SAME. ——) IRON BENCH FRAMES FOR SLATE OR WOOD TOPS. (——

SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUES.

HITCHINGS & CO., 233 Mercer Street, NEW YORK.

THOS. W. WEATHERED'S SONS,

INCORPORATED.

Horticultural Architects and Hot Water Engineers

Send for Catalogue, enclosing 4 cents in stamps.

No. 244 Canal St., NEW YORK CITY.

THE CHAMPION Automatic Ventilator.

The cheapest, easiest to operate, and by far the best machine in the market. Don't buy a Ventilator until you have seen my illustrated descriptive circular, which will be sent you free, giving prices, etc. Also Champion Soil Pulverizer and Sifter.

Address, Box 114. E. E. WOLF, SPRINGFIELD, O.

Mention American Florist.

EVANS' IMPROVED

CHALLENGE VENTILATING APPARATUS

Write for Illustrated Catalogue.

QUAKER CITY MACHINE WORKS, Richmond, Ind.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

THE AMERICAN FLORIST

A WEEKLY JOURNAL FOR THE TRADE

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. IX. *CHICAGO AND NEW YORK, JANUARY 18, 1894.* *No. 294*

THE AMERICAN FLORIST

Copyright 1894, by American Florist Company. Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY
322 Dearborn Street, Chicago.

Subscription, $1.00 a year. To Europe, $2.00.

Address all communications to

AMERICAN FLORIST COMPANY.
P. O. Drawer 164, CHICAGO.

Eastern Office: 67 Bromfield St., Boston.

SOCIETY OF AMERICAN FLORISTS.

J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. Tenth annual meeting at Atlantic City, N. J., August, 1894.

CONTENTS.

Carnations—Notes 533
—Bordeaux mixture 533
Roses—Roses in Kansas 534
A few ornamental fruiting shrubs (4 illus). . 534
Possibilities in horticulture 535
Washington 536
Philadelphia 538
Chicago 538
St. Louis 539
Buffalo 539
Montreal 540
Worcester, Mass 540
The seed trade 544
Catalogues received 544
Springfield, Mass 544
Indianapolis, Ind 546
Baltimore 548
Toronto 550
Cincinnati 550

DES MOINES, IA.—For some months past there has been some heavy cutting in prices by local florists. Realizing that this sort of competition was doing serious injury to all alike the principal growers and retailers got together lately and agreed on a minimum scale of prices, each one being at liberty to get as much more as he could. Those so agreeing are I. W. Lozier, W. L. Morris, R. L. Blair, Julius Lay, Peter Lambert, E. W. Bergstrom, A. Anderson. It is to be hoped that a better feeling will now prevail and that we may have a chance to make a living profit on sales.

ROCHESTER, N. Y.—The 39th annual meeting of the western New York Horticultural Society will be held in this city January 24 at 11 a. m. in the Common Council Chamber. The society has a membership of about 400. The president is Mr. W. C. Barry and the secretary Mr. John Hall, both of this city. The address of the secretary is 406 Wilder Bldg. The program for the meeting includes 15 essays, and a feature will be the answering of questions, of which no less than 40 are printed in the program. Copies of same may be had of the secretary, at the address above noted.



Carnation Notes.

There are more ways than one of killing a duck. If you have a dark shade of pink and want a light one, let your flowers age on the plants and if they have been disbudded they will at the same time increase in size and produce a much finer stem. I have found this to work admirably on Grace Darling and Aurora, and have no doubt it can be done with many others. Aurora can be left from four to six days and Grace Darling from six to eight, and then they will be at their best for a light pink. These things are well to know if you happen to have a house of a dark shade and your trade begins to want light shades.

If your flowers are not large enough, jolly them along with some good manure water and do not be afraid to let your temperature run up to 75° or 80° on all bright days. Your cuttings may not be quite so good with this treatment, but if the flowers are improved enough to bring a good fair increase it is a small matter to buy the cuttings and you will be better off than to try to grow good cuttings and get only medium flowers.

Being in Philadelphia on New Year's day, I took a drive through the Park, Germantown and into Chestnut Hill, there to grasp the hand of the genial Ed and see his new carnation Helen Keller, which, as he truly says, is worth going many miles to see. Helen herself has about all of the goodness that can be put into one young lady, and her namesake has about all the good points that can be put into one carnation. Mr. Lonsdale's example might be followed by some hybridizers with good advantage to the trade. I have visited at his place quite a number of times and, as he is a great enthusiast on carnations, there are always some new seedlings blooming, some of them with very good points, but he has set up an ideal, and unless his seedlings reach that ideal they are never boosted on the trade.

While in Philadelphia I learned that selected Edna Craigs brought as high as $8 per 100, the average run $5 and the seconds $3 per 100, while Helen Keller sold for $7 straight. Now there are very few of us in the business for sentiment; if we are we should be growing forget-me-not or orange blossoms. If we are in it for money we should grow that which will give us the best returns.

A great many growers are now beginning to propagate their stock for next season. It's an old story, but you can't have too much of it. In the first place be more than careful to take cuttings only from those plants that are perfectly healthy and are making a good crop of bloom. The side shoots from the flowering stems make the best cuttings and they should be grown in a temperature as nearly that of the house from which they came as possible. As soon as they are fairly well rooted plant them into soil, either in pots, trays or on a bench. Do not have the soil too rich and do not wait too long to do it; the sooner after they are rooted the better, for if they are left in the cutting bench too long they will become weakened and you will be laying the foundation for a sickly plant all through the season.

ALBERT M. HERR.

The Bordeaux Mixture for Carnation Diseases.

Requests have come to me from time to time concerning the Bordeaux mixture for plant diseases in the greenhouse. The Bordeaux mixture is a compound of sulphate of copper, quick lime and water. It is made of various strengths, but the standard formula is: Sulphide of copper 6 pounds, quick lime 4 pounds and water 22 gallons. The copper sulphate is dissolved in the water, hot water may be used to advantage, a gallon or so for securing the solution. The lime is placed in another vessel with a gallon or so of water, and shortly the milk of lime thus secured is slowly added to the copper solution in the first vessel, stirring constantly, and then strain all through a sieve or coarse gunny sack. Finally add the 20 gallons of water to make the mixture of the full strength. Within the last two or three years equally good results have been obtained with a mixture of half the above strength which is secured by either doubling the amount of water or halving the copper and lime. Even a weaker solution, ⅓ of the standard strength, has been found sufficient in many cases. The weaker solution, possibly this last named one, will be all sufficient for the work in the greenhouses. The color given to plants that are sprayed with the Bordeaux mixture is a pale blue, and not unlike that which obtains naturally in the carnation plants, so that on this score of discoloration there is no excuse for not using the Bordeaux mixture for carnation troubles.

Upon some of the finer leaved and more delicate plants, especially those grown for ornamental foliage, it may be better to use a second formula which has the advantage of not coating over the surface of leaf with a layer of the lime. This remedy is known as the ammoniacal carbonate of copper compound, and in full strength it consists of carbonate of copper

5 ounces, ammonia water 3 quarts and water 30 gallons. The carbonate of copper, which may be obtained through any druggist, is wet up in a quart of water and to this is added the ammonia, and when completely dissolved the solution is diluted with water and the compound is ready for use. Here again it is possible that a half strength formula would answer fully as well.

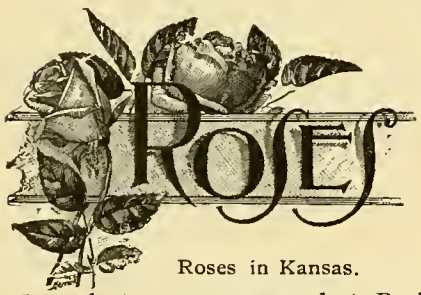
As to time of spraying: As the plants are under glass and not subject to the changes which obtain outdoors the spraying may be quite uniformly one week apart, wetting the plants thoroughly with a fine mist of the formula produced from a force pump of some sort bearing upon the end of the rubber tube a nozzle which will produce a fine spray.

The latter remedy, namely, the carbonate of copper compound, has been quite effective in some greenhouses in checking the black spot and other troubles of the roses; in fact either of these two remedies may be used with good effect upon greenhouse plants that are troubled with one or more of the many kinds of blights and other fungous diseases. BYRON D. HALSTED.

Rutgers College.



CELASTRUS ARTICULATUS. CELASTRUS SCANDENS.



Roses in Kansas.

In reply to your correspondent, Paul Wittrup, in reference to the trouble with his roses, I have examined them very carefully and can form no idea as to the absolute cause of his trouble, but think that a good deal of it arises from lack of proper fertilizing matter in his soil. If my memory serves me right my experience, or rather my judgment, of the soil of Kansas is that it contains a large amount of alkali, and to modify this as much as possible to make it congenial to plants of the nature of roses it must have a certain amount of animal matter in it to give some ammonia. The best thing for such soil that I have ever found is well decomposed cow manure; its nature is cooling and at the same time stimulating enough for all practical purposes. Horse manure, on the contrary, is too heating. Herein, I presume, lies the bulk of his trouble with the early planting of his roses. The mushroom compost, or manure from mushroom bed, as he calls it, is not at all suitable for such kind of soil as they have there, and I believe that the trouble with his roses getting into the condition he describes is largely due to the above facts.

While roses can be grown to perfection in light, and some places very light soil, it is where and when other conditions are of equal advantage to the plants. In his place I am inclined to think the main conditions are lacking, viz.: a cool retentive base for the plants to grow in.

Another cause of his trouble, and I think a very material cause, particularly with the conditions of his soil to contend against, is his night temperatures; 70° in the day time to 75°, or even a little higher in bright sun, is not far out of the way, in fact is about right, but 60° to 65° at night is altogether too high; I would advise him to keep his temperature down to 55°, or from 56° to 58°. Water liberally when on the dry side, giving all the air practicable on favorable occasions, and with the present condition of affairs get a mulching of cow manure on the surface of soil as early as he possibly can; watering, syringing, etc. will carry the ammonia down to the roots and give strength and vitality to the plants, developing the flowers to perfection.

Circumstances, soil and other conditions must always be taken into consideration in every locality where an attempt is made to grow roses; and it is only by strict observance of the conditions appertaining thereto which will lead the operator to success.

During my experience with correspondents in the state of Kansas I have found the facts quoted above to be the cause of much of their trouble. True, I have never been over a very large portion of the state of Kansas, but that portion which I have traversed convinced me that the alkali natural to the soil and climate was very detrimental to the rose, hence all possible means must be adopted to counteract it. JOHN N. MAY.

A Few Ornamental Fruiting Shrubs.

In planting grounds for decorative effect too few of our gardeners take into consideration the value in such work of fruiting shrubs and vines. Landscape gardeners are just beginning to see the possibilities in a judicious selection and arrangement of berry bearing plants, especially those which hold their fruit into late fall and winter, and to realize that these are almost as indispensable as those whose particular beauty lies in their flower or foliage alone.

To the florist and interior decorator these have a value that, with one or two exceptions, is not recognized as it should be. The holly, with its rich glossy foliage and scarlet berries, has come to be an indispensable material for decoration in our Christmas and midwinter festivities, and the beautiful Ilex verticillata, or black alder, with its heavy laden branches of dazzling scarlet (sometimes yellow) fruit, and whose only misfortune is that it is "common," is well known and appreciated among our country cousins, who use enormous quantities of it in the preparation of their holiday greens for market and find in it the ready material to trim up their holly wreaths. Many a "holly" berry has been sold that never had the honor of growing on a holly tree.

The specimens shown in the illustrations are only a few selected at random from the very large number of shrubs of this class which have been making the grounds of the Arnold Arboretum attractive.

Celastrus scandens, or bitter sweet, is a well known American climber abundant in rocky woods, where it climbs to the tree tops and festoons them with its drooping racemes of scarlet fruit. Celastrus articulata is a native of China and Japan. Like C. scandens the orange scarlet fruit is enclosed in a yellow three-lobed capsule or persistent calyx, which opens at maturity and exposes the berry. In the illustration the valves on C. articulata are opened, while those of C. scandens are closed. C. articulata is a much more rapid grower than C. scandens. The racemes are not so large, but are much more abundant, and it is more graceful for decorative purposes. It can be cut in streamers from one to five feet in length. One thing regarding celastruses must not be forgotten. They are all dioecious and in planting care should be taken to secure only seed-bearing plants.

Another illustration shows Pyrus prunifolia in two varieties, one with red and one with yellow fruit. These Asiatic apples are extremely beautiful when in bloom in spring, as well as when in fruit. The fruit of the red one especially hangs well on the trees until after very severe frosts, and the loaded branches are splendid for decorative work. An additional advantage possessed by this fruit is that it makes a jelly of unequalled flavor.

Berberis Thunbergii is a popular Japanese species, and in foliage, flower and fruit is one of the best plants introduced into this country for many years. On moderately poor soil it gives brighter autumn foliage and fruits earlier and heavier than on rich ground. The berries



PYRUS PRUNIFOLIA. TWO VARS.—RED AND YELLOW FRUITED.

are brilliant from early autumn until the leaves come in the spring. Probably the way to preserve them in best condition, however, would be to cut the branches in early autumn and put them away in moist sand in a light freezing temperature. Not long ago the gentlemen's smoking room in a Newport mansion on a wedding occasion was decorated exclusively with Berberis Thunbergii branches with grand effect. The other berberis shown in the illustration is B. vulgaris var. Amurensis. B. vulgaris is our well known common barberry. The variety shown is a beautiful Asiatic form from the Amoor River. The berries are more brilliant in color and the racemes much longer than in our common variety. The foliage is also superior.

The next illustration shows two climbing vines in fruit, Ampelopsis heterophylla and Menispermum canadense. Ampelopsis heterophylla is a beautiful species from Japan, where it is called the "blind grape." It is a rapid climber, very effective in covering trellises, etc. The fruit is very striking in color. In the same bunch it will be of all shades from pale green to deep violet, in porcelain, robin's egg and ultramarine and speckled with tiny black spots. The branches grow naturally in fruited festoons from eighteen to twenty-four inches long, but if trained specially for fruiting purposes they could doubtless be produced much longer. There is also a yellow fruited form of this.

Menispermum Canadense, as shown in the illustration, bears its fruit suspended in bunches by slender thread-like stems. In two or three foot festoons it is very effective, but the blue-black berries are somewhat lustreless and are in condition only in early fall. JACKSON DAWSON.

Possibilities in Horticulture.

BY EDWIN LONSDALE.

[*Read before the Gardeners' and Florists' Club of Boston January 8, 1894.*]

Just as soon as I had accepted your kind invitation to read a paper before you this evening I felt that a mistake had been made, and the nearer this date was approached and the more the matter was thought over the more I felt sure I had blundered. However, the words of the gifted Helen Keller occurring to me, that this is the City of Kind Hearts, I took courage and determined to keep my promise, and here I am.

The subject selected is one on which much speculation can be indulged in, but I do not propose to go very far beyond the realms of probability. Judging from the immediate past we may reasonably expect to advance very rapidly in the future. Every decade will show a decided and distinct gain in a more pronounced American horticulture. We have a great deal to learn yet from the Old World, and we are both willing and anxious to do so, but we must appreciate the fact that America is assuredly evolving a horticulture almost completely her own. I say *almost* advisedly, because everything appertaining to horticulture is more or less based upon what has been accomplished by our forefathers in days gone by. Who could have predicted twenty-five years ago the amount of money which is now being spent annually in cut flowers? I do know that about that time a very noted horticulturist stated in my presence that the demand for cut flowers was only a passing fancy. The methods of production and the quality of the product (especially does this apply to the magnificent roses as produced under glass in the winter season) are as distinctively American as it is possible to be. Climate of course has had a great deal to do with the matter, but the American people have not been slow to appreciate well grown flowers and have cheerfully paid good prices for them.

What will the next twenty-five years bring forth? It is very difficult to answer that question, but the possibilities to bring about a love for plant life for its own sake is great. It is the duty of every one of us to foster and encourage a love for the *growing* plant among the people. It is the loving care and attention necessary to cater to the needs of a living plant which brings us in closer touch with horticulture. Who among us has not noticed in passing many of the public institutions for the care and education of children a woeful lack of congenial surroundings? The possibilities for the betterment of the human race by inculcating a love for horticulture is immense in just such places, for it is inborn in every child to love the green grass, the noble trees and the beautiful flowers. Greater and more organized efforts should be made to develop that affection in the human heart for everything that grows. All educational institutions should be made horticulturally attractive, so that we will be educating and giving pleasure to the young and receptive mind at the same time.

As a general rule, so far as I have been able to observe among the professions, medical doctors are the most intelligent laymen horticulturally, and the only explanation I can think of is that botany is one of their studies, and many plants are used medicinally, and this intimate knowledge has drawn them closer to plant life.

Education in ten years from now will mean more, far more than it does to-day. Not only will the mind be trained in the rudiments of arithmetic, grammar and penmanship, but the liberal arts will find exemplification in our public system; the muscles and the eye must be trained. The scholars should be taught the use of tools. Every boy and girl born under the stars and stripes should know how to turn their talents or gifts to the best possible use. There should be no drones in America. The more intelligent the people the more they will love their country and nature, and horticulture in all its grandeur and beauty will follow in the wake as surely as sunshine follows rain. The dead language Latin should be taught in our public schools as the English language now is, and with as much thoroughness. This consummation would bring minds in closer communion with other minds and with nature. Most of us have experienced a feeling of depression when, on being questioned by an enthusiastic admirer of some particular plant, its name, and on its being given according to science has produced a dejected and listless look in our companion and the chord of sympathy is broken, and the merest commonplaces are indulged in thereafter. No heart to heart feeling as there should be in the educated men and women of the future.

To come nearer to what we are doing to-day adaptability must play an important part in developing a still more pro-

nounced American horticulture. Many plants which are now being coddled all the year around in glass structures will flourish yet in the summer days to come, in the open air and full sunshine. Take crotons as an example, these plants are rapidly forging to the front, and their adaptability for outdoor decoration in summer time in many parts of America will be the means of other classes of plants being used more or less freely for the same purpose. The abutilon may prove to be one of these, although it has not that shining gloss which its more aristocratic neighbor, the croton, possesses, yet it can lay claim to one or two advantages all its own which the croton lacks. That of producing flowers in its several shades and colors, being carefully selected, would make a most pleasing contrast with its yellow and green or other variegation in the pleasure grounds of the wealthy, and another is that of being increased easily and at small expense, bringing it within easy reach of all persons.

In order to point out what adaptability has done to establish an American horticulture I need only to point to the three leading classes of plants which are used here for cut flowers during the winter season. All these are hardy in Europe, yet we can attain the best results with them by giving each a glass structure to grow in the year around. The hardy rose flourishes under glass here in winter better than it does outdoors anywhere at any season. Then again the carnation, the hardy Dianthus caryophyllus of Europe, prospers better here under the protection of glass than it does in its native land. We are rapidly and surely producing a race of this dianthus that is superior for American requirements, that is distinct from those originating in Europe. The lines now laid down by the carnation enthusiasts of America can not possibly fail to produce surprising results, which will be apparent in the very near future, much sooner than many conservative minds can at this time realize. It is not only improved varieties that we will see but improved methods of cultivation. Many of the more meritorious varieties will require special treatment. Only a few days ago I saw one of the very old varieties luxuriating under a different mode of culture than had been tried on it before on that place, and the results were gratifying. It was the old sort Buttercup—having been grown under glass all summer. It was healthy and robust and without a speck of disease of any kind. A very bad case of the much dreaded carnation rust has been cured completely by a course of treatment under glass all the year, and it was the protection afforded by the glass which was the greatest factor in that cure. The dews which are considered so beneficial to vegetation in general seem to cause black spot in roses, rust in carnations and the disease in violets.

The rose, the Queen of Flowers, while we can grow and bloom it to perfection yet so far we have not been able to compete with Europe in the raising of new varieties, in numbers at least. The possibilities here are very great. We are expecting great things from some of the more favored states of the south, where the seedling plants can be treated to an all the year around outdoor treatment, and from Rosa's paradise, California, where some systematic operations are now in progress with the object in view of improving the rose for American horticulture.

The violet, the sweet and popular violet, which grows and blossoms in shady nooks and on grassy banks in Europe, is found to do better under glass here all summer than it does in its native habitats. The disease which has made the growing of violets under glass in some parts of the country so precarious the past few years can now be successfully combated by a course of rational and judicious treatment under glass all summer. And instead of the stocks of all our staple articles becoming enervated by what is yet by many people considered in opposition to the well being of the plants they really become stronger.



BERBERIS THUNBERGII AT TOP. BERBERIS VULGARIS VAR. AMURENSIS BELOW.

Much has been done recently in the improvement of glass structures for plants, and much more remains to be done. Something good will evolve from the radical innovations in greenhouse construction which we are now passing through. The possibilities are great for the production of much of the material which is largely used in horticulture here, and which is imported at great expense annually from other lands. Holland bulbs, azaleas and many other articles with our varieties of soil and variations in climate can be grown here, and will be taken up some day soon and special lines developed to such proportions that can hardly be realized by the conservative mind of to-day.

We must enlist the daily newspapers in our cause. We now have excellent amateur and trade papers devoted exclusively to horticulture, but it is the daily newspaper which is the power in the land to-day. Some of our daily papers are already doing good work, but much more remains to be done to elevate horticulture to the plane to which it is entitled.

Every Gardeners' and Florists' Club or other society devoted to the advancement of horticulture should have on its lists of standing committees a press committee, the duties of which should be that of furnishing reliable news items and plain cultural notes and other horticultural reading matter as often as possible to the leading daily newspapers in their respective cities. It is not advisable or necessary to prepare long exhaustive papers, for frequently the length of an article, no matter how much valuable information it may contain or how carefully prepared it may be, destroys its usefulness. Don't make them too scientific, giving only cold prosy facts, but matter that will appeal to the heart, drawing the readers closer to plant life, is what is most needed. The press has already awakened an interest in horticulture by their reports of chrysanthemum and other flower shows and it will be only too glad to keep up the good work if only the right kind of matter is furnished to it. Very much more could be said on this interesting subject, but I am afraid I have already taxed your patience too long.

Washington.

The first state dinner of the official social season by the President and Mrs. Cleveland at the executive mansion was both an elaborate and brilliant affair. It was what is known as the cabinet dinner. Mr. Henry Pfister, the gardener in charge of the conservatory at the White House, had every reason to feel very



AMPELOPSIS HETEROPHYLLA ABOVE AT RIGHT. MENISPERMUM CANADENSE AT LEFT.

proud of his success in this decoration. The state dining room is a large affair just adjoining the conservatory on the east end. The table was the shape of a Roman I; the centerpiece was an ellipse 2½x5 feet of various kinds of adiantums thickly studded with Cypripedium insigne. At either end of this centerpiece and just under the handsome crystal chandeliers were mounds of ferns and cypripediums, having a plant of highly colored Anasassa sativa variegata for a center. Beyond these again on the transverse sections of the ends of the table were three 12-inch pans of cypripediums, each having from thirty to forty fine flowers in it. At either end of the table the gold candelabra held tapers under scarlet shades, while the wax candles in the silver candelabra were under yellow shades. At each lady's place was a corsage bouquet of orchids backed with asparagus, a single orchid flower being at the place for each of the gentlemen. The window recesses and mantels were banked with ferns, cypripediums and pineapple, among them here and there scarlet poinsettias. The entire dining room decoration was especially effective and graceful.

The mantels in the red room were banked with plants of Begonia Bruantii finely set with flower; ficus, crotons, palms and dracænas being used in every nook and corner to good effect.

The blue room was decorated with various kinds of foliage plants. The mantel was banked with primulas in full bloom. The large divan in center of room was crowned with a fine specimen of variegated pineapple.

In the green room were arranged some fine specimens of crotons, dracænas, anthuriums and ferns. On the mantel were a few choice plants in celluloid baskets. The plants in this room were not at all crowded and each plant showed its individual character.

In the east room, which is the reception room, the greatest display is always made. The arrangement of the plants and flowers in this room is always in charge of Mr. G. H. Brown, Supt. of Public Grounds. On this occasion Mr. Brown did some very fine work. It was said by some to be the finest decoration ever attempted in this room. The two mantels at the north and south ends were banked with various kinds of ferns, the mirrors above being draped with smilax. Under each mantel was a mound of tastefully arranged high colored crotons, ferns, Anthurium crystallinum, dracænas and small Pandanus Veitchii. The six windows had each a large plant of Areca lutescens for a center; grouped around each were fine specimens of crotons, pandanus, ferns, anthuriums and small palms. In the large east window were three large plants of Seaforthia elegans reaching to the ceiling; banked about these to the height of about 15 feet and sloping back to the window were bright colored dracænas, ferns, pandanus, anthuriums, crotons and several varieties of small palms. The three large crystal chandeliers were festooned with smilax. On the top of the large divan which stood in the center of the room was a magnificent specimen of Dracæna Kuerkii. On either side of this divan, at a distance of about eight feet, was a pyramid some 7 or 8 feet high of foliage plants with a large Kentia Belmoreana for a center. Over the doorway leading to the main corridor was a bank of decorative plants (leaning so as to hide pots). On either side of the doorway stood a plant of Rhapis flabelliformis and R. humilis surrounded by a variety of decorative plants. The two west mantels were also banked with foliage plants. Hanging from these were long strings of Cissus discolor, which added grace to the entire mantel. The heaters under mantels were banked with foliage plants. The two large mantels on the east side of this room were banked with roses, carnations, valley and Romans, while the mirrors over them were draped with smilax, this being the only display of cut flowers in the east room decoration. The four large columns were festooned with smilax, producing the effect of a number of green anchors resting on white ground.

The main corridor, where hangs the picture of each president who has occupied the White House, was tastefully decorated with plants. Mr. Pfister keeps plants always in this corridor, removing them twice a week. It is a dark place, being what might be termed an inside room, and is therefore very trying on the plants.

At a recent visit to the large establishment of C. Strauss & Co., the Washington rose growers, now covering about 7 acres, the first thing to attract my attention was their five new houses, which are of the most modern style. The roof is sharp, running up about 25 feet, glazed with the finest selected French glass, 16x24 inches. They claim it is the most economical glass they can use, as they have fewer lights broken and no bad spots to cause burning. The houses have no partitions between and one can see all over them from any part of either house. They are all planted with carnations, Mrs. Fisher, Grace Wilder, McGowan and Lady Emma being the varieties grown in quantity. They are the finest and most healthy plants I have seen this season, covered with a mass of finely formed buds. The houses contain about 3,000 plants; they have several other houses devoted to carnations, in all about 50,000 plants, all in as fine condition as could be desired. Every inch of space is utilized in this carnation range, the steam piping being below the stagings, which are about 5 feet above the ground; this ground space is used to store their bulbs in when first brought in before being put into forcing heat. The space under the gutters between the benches, which is about 10 inches wide and about 18 inches from bench to gutter, is filled with Lilium Harrisii, some being 10 to 12 inches high and very robust in growth, the bulbs being the finest selected stock. Aspidistras are arranged along the fronts of some of the pathways, which are about 2½ feet above the ground. The carnation plants were lifted about the first of October and planted in the houses, where they have taken root nicely, looking as though they had never been moved; this demonstrates beyond a doubt that car-

nations, with proper care and attention, can be grown in this section. Some hold that they do not do well in the District of Columbia, the soil not being adapted to them.

A house of American Beauties was filled with splendid plants; fine, clean, strong, healthy shoots were as thick as could be wished for, each one showing a strong bud. My attention was next called to a house of Brides, which had been carried over from last season. They had lately been pruned and pinned down, had begun breaking nicely and were looking remarkably promisiug. Next came a house of young Mermets, which was at its very best, finely set with buds, thrifty and healthy; old plants are not to be compared with them. From this house we passed into a house of Christine de Noue of young stock planted very late; nevertheless they were in grand condition. Both Mr. Durfee and Mr. Cain say this is one of the very finest outdoor roses in cultivation, being a fiery red when grown outside and of a grand size and substance. They do not think it sufficiently good for commercial purposes to warrant them in growing it in large quantities. We passed on into a house of Perles as fine as could be wished for, a perfect sight when looking down the full length of the house, some 300 or more feet. We next inspected a house of old Perles, which had been treated as hybrids (allowed to dry out). They had recently been pruned sharply, watered, fed and a little heat turned on. They were breaking nicely and in every way look promising. They are also experimenting with a house of old Perles, treated in the same manner, but without pruning, which are doing remarkably well, producing a quantity of fine buds and making good young shoots from the ground. We were next shown a house of young Kaiserin, planted late in August. They were a grand sight. Such magnificent flowers, some of them measuring 7 inches in diameter, with four feet of stem. I have never seen their equal. They were as large as any Beauties and can be cut with as long stems. There were buds by the thousands in all stages of growth. They think this rose has a great future. They are all grown on their own roots. The grafted plants are not doing so well as those on their own roots, but are showing an immense crop of fine flowers, though the wood does not have the same vigorous, healthy appearance. They will grow no more grafted stock.

The house of old Woottons had just been pruned and pinned down; they were breaking nicely and making fine growth from the bottom. This rose has been considerably abused, but I think unjustly so, for they succeed wonderfully with it here and find ready sale for all they can produce. A house of old Mermets lately pruned and pinned down was looking well, finely set with buds on strong healthy wood. A house of old plants of white La France, which had been dried out and lately started, was showing up nicely, promising a fine crop the first part of January. A bench of the new rose American Belle, which was planted September 20, was looking unusually fine, considering the lateness of planting. This is a lovely rose, being cherry pink in color. Mr. Durfee thinks it will be a good commercial rose. A bench of Golden Gate was looking strong and healthy, just coming into flower. They think a good deal of this rose and will plant a house of it next season.

A house of young White La France which was planted in July was a sight. I don't think its equal can be seen in the United States. One could cut superb flowers with stems 3 feet long by the thousands. This house is 365 feet long, with every plant in most perfect health.

A bench of the new carnation Ruth Cleveland next caught our eye. It is a delicate salmon pink, nicely fringed and unusually fragrant. The plants were finely set with buds, though not a strong grower. The majority of their carnations are grown in stiff, strong soil. They have sweet peas planted along the fronts of their carnation benches, about 4 or 5 feet apart, which are looking very well, being about 2½ high; they are expected to be in full flower about January 10.

They grow 5,000 Adiantum Ballii for cutting from and say it is one of the finest ferns for all round use on the market. Their stock is looking remarkably well, showing superior cultivation.

C. LESLIE REYNOLDS.

Philadelphia.

The weather for the past week has been for the most part mild, but very cloudy and dark, with little sunshine. With such weather as this it is almost impossible to get color into the roses, and as off color Beauties, or in fact any other kind of roses, are hard to sell, the dealers are not carrying very large stocks. The Brunner is king, and Beauties and Belles have now to take a back seat; this beautiful rose is clearly the most popular of the hybrids. While the stem is not quite as long as the majority of the Beauties its brilliant color and luxuriant foliage more than make up for this deficiency.

For the Assembly ball, on Friday last, the Brunner was clearly the favorite, and the dealers had a hustling time to get stock enough for their orders. Anderson, Burton and Smith & Whitely seemed to have hit it nicely and had quite a stock, but there were not enough to go round, and the repeated raids by special messengers and telegrams to these growers' establishments before the day was over completely used up every bud that had a bit of color to it. There were not as many bouquets for the ball this season as last, and as this has been the rule for some years past it would seem as if the bouquet was being tabooed, and its presence at the balls will soon be only a tradition. However, the debutante is still left us, and on her will we continue to shower our most artistic bunches.

While the stock of roses of all kinds has not been plentiful yet the demand has been so poor that prices have not been sustained. Beauties can now be had for from $25 to $40 for the best. Brunners are $50, and a few Laings sell for $35. Mermets, Brides and La France bring $6 to 8, a few extras 10. For the smaller stock such as Perles and Gontiers 3 to 4 is asked, and Cusins, Wattevilles and Hostes $4 to $5. There are a few Bridesmaids, Testouts and Kaiserins which sell for from 8 to 12.

Carnations are now from 1.25 to 1.50 for the general run and 2 to 3 for extra stock, such as Daybreak, Sweetbrier, etc.; Edna Craig commands 3 to 4 and Helen Keller is still 7, with no prospect of a break. Valley is plentiful at 4. Romans 2 to 3, narcissus about the same. Double daffodils and large trumpet major bring 6 to 8. Double violets sell for from 1 to 1.50 for the best.

There have been several meetings of the committee having in charge the revision of the schedule of the Horticultural Society for the spring show, and as the Chester County Carnation Society are to be associated with them, or perhaps we should say are going to make a special carnation exhibit on that occasion, the premium list will show a special preference for the divine flower. It has not yet been decided where the show will be held, but some seem to favor the Armory where the chrysanthemum show was so successful. Among other premiums it was suggested that one be offered for the best keeping carnation; we doubt very much in the light of past experiences whether any of the varieties would be wide awake enough to attract the attention of the judges on the second day of the show.

Edwin Lonsdale has solved the problem of the best way to stake carnations, and that is to grow varieties with such stamina that they don't need artificial support, but are able to take care of themselves. His house of Helen Keller is growing entirely without stakes, and yet the large heavy flowers are borne perfectly erect on stems sufficiently strong to support them. Mr. Lonsdale has been doing Boston and New York the past week. One of the growers was asked if the mild weather did not save the coal bills, and he replied that while the coal pile might not suffer so much these dull days the crop of flowers was so small that it was just as hard to pay the bill. "Give us good bright cold weather and we won't say a word about the coal."

K.

Chicago.

The Horticultural Society of Chicago held its annual meeting last Saturday afternoon at the Sherman House club room. President Chadwick submitted a very full report of the work of the society during the past year, covering especially the details of the World's Fair chrysanthemum show, in which the society took such an active part. Mr. J. T. Anthony, treasurer of the exhibition, made report to the society, the joint committee being now so widely scattered that there was no likelihood of its having a meeting. He reported a surplus of some $1600 in his hands after all premiums and expenses had been paid, though there was a contingency to be provided for in the matter of medals. The exhibition management was to pay the Exposition Co. the cost of making the World's Fair medals awarded by it, and the exact amount cannot yet be ascertained, as the medal subject is still tied up in the red tape of the Government commission. But Mr. Anthony thought it would be safe to pay a dividend of 15% on the guarantee fund, and on his recommendation the society concurred in such action. The society agreed to purchase the vases used at the show for $200, which item will swell the surplus, as the cost of the vases had been charged as an item of expense.

With a minor exception the full list of officers was re-elected to serve another year. Those who will administer the affairs of the society for 1894 are as follows: Pres., Wm. H. Chadwick; 1st Vice-Pres., F. Kanst; 2nd Vice-Pres., J. A. Pettigrew; 3d Vice-Pres., E. G. Uihlein; Treas., Melville E. Stone; Sec'y, Wm. C. Egan; Ass't Sec'y, P. J. Hauswirth; Directors, Geo. Schneider, Philip D. Armour, Andrew McNally, C. L. Hutchinson, W. H. Rand, Jas. W. Ellsworth, S. W. Allerton; Executive Committee, the president, vice-presidents, secretary, treasurer and Geo. C. Gardner, J. T. Anthony, G. L. Grant, O. P. Bassett, J. C. Vaughan, W. N. Rudd.

The executive committee was instructed

to prepare and issue a premium list for the exhibition of 1894. The committee will take action at a meeting to be held next Saturday afternoon, and the premium list will be issued as soon thereafter as it can be printed.

The Florists' Exchange Pleasure Club's ball at Brand's Hall on the 10th inst. was a very enjoyable affair. About 50 couples were present and the dancing continued until well into the morning. The hall was prettily decorated with wreathing, the floor was in fine condition and the music was excellent.

The Columbian Floral Co. succeeds John S. Forster at Evanston. The company is composed of Messrs. H., G., F. and A. Hunt.

The Kroeschell Bros. Co. succeeds the firm of Kroeschell Bros., boiler makers. The management will remain much the same as before.

Continued sunless weather, warm and foggy, has taken all the life out of the flower market. The retailers have little to do, and the demand is very small for this time of year. In most lines there is not an extra amount of material cut; if there was it would swamp the market. Buyers are critical, too, and want only good flowers. Roses in many varieties are suffering from want of sun; many of the Beauties are poorly colored and flabby, in addition to being short stemmed, while the Meteors are almost black, with stubby and crumpled petals, in which condition they do not sell. Some very good Woottons are noted, but they are in the minority. Mermet suffers greatly from the dark weather, and can not compete with Bridesmaid; this last variety, however, is little grown around Chicago. Carnations have dropped in price, and few go over $1.25 except Daybreak, which sells well at $2. A few Wm. Scott have also appeared; they are much admired and sell for the same as Daybreak. There is a good demand for scarlet carnations, and not many in the market; they are pretty well confined to Portia, and this is often objected to on account of its small size.

In bulb stuff there is plenty to choose from, and at low rates. Harrisii lilies are extremely plentiful, with but moderate sales. In price they range all the way from $2 a dozen for selected long stemmed stock to $5 a hundred for a fair average grade, and it is needless to say there is more sold at the latter price than the former. Romans are still sent in by the bushel; they must have been purchased in immense quantities, for the stock does not seem to diminish a particle. They run from $1 to $3; paper white the same. White and yellow tulips go well at $4 to $5; red sell rather slowly at $3. Double daffodils have made their appearance, bringing $6.

Greens continue to go very slowly; smilax was never less in demand. Orchid flowers form part of the regular stock now with many florists; cypripediums, cattleyas, vandas, angræcums and cœlogynes are most frequently seen; they are usually sold by the box. Fine cyclamen plants were noted at the Exchange; they were in 6-inch pots, well bloomed, and sell at $9 per dozen.

St. Louis.

The regular meeting of the St. Louis Florists' Club was held during the past week and was well attended. The final report was handed in by the finance committee having in charge the S. A. F. entertainment during their last session. The report was accepted and the committee discharged. The report should have been made some time ago, but was unavoidably delayed owing to several accounts not being closed. The unexpended balance in the hands of the committee was turned over to the club treasurer. Some fine carnations were shown by Mr. Carroll, but when called upon for the essay he had been appointed to read on carnations he asked that his time be extended until next meeting, as he was not fully prepared, which was done. An informal discussion, however, was indulged in regarding the above flower, which showed that all present were interested in and alive to the importance of the subject.

The next meeting promises to be very interesting, if not exciting, as there will be the carnation paper, as well as the question of the advisability of holding another show, this matter having been named as special business, and the opinions being various. The outcome is hard to see, but the majority express a hope that there will be found some way of continuing them. Prof. Trelease stated that the medal offered by the trustees of the Shaw estate at the St. Louis show and known as the "Shaw Medal" was not as yet finished owing to the time it required to make the dies after getting a satisfactory likeness of Mr. Shaw. It was promised, however, shortly and would be forwarded to the winner, F. Dorner & Sons, as soon as completed.

Quite a discussion was indulged in regarding the single pipe system of heating used by Mr. Will Hucke, the general opinion being that it was desirable on small places.

Mr. E. W. Guy of Belleville was recently called upon and found giving his Perles a top dressing of bone meal to help them along in their spring crop. He is troubled, as most of the florists here are, with soot, owing to the use of soft coal for fuel and the proximity of large mills. The trouble is noticed most during the dull months when all possible light is needed; in the spring and fall the cut is all right. An effort is also made to have stock to cut from during the summer, La France, Perles and Woottons being relied upon in the order named. A general collection of plants is also grown for cut flowers. A number of Harrisii were noted both in pots and planted in benches; the latter method has been found the more economical and will be increased next season; this applies more especially to Christmas stock. The roses were looking as well as could be expected. Some Kaiserin have been tried, and from the way stock is being worked up it promises to be a good thing. The propagating bench has a half inch layer of crushed charcoal spread over it before the sand is placed on it; this enables several crops of cuttings to be taken from the same sand without any fungus making its appearance. As the successive crops are put in the charcoal works upward, finally becoming thoroughly mixed with the sand.

At Dr. Halsted's place everything was in good shape; the best, however, was the carnations. Here, as at the other places, Lizzie McGowan proved to be the best white; it cuts quantities and keeps it up throughout the season. Hector was also strong, but the habit of coming in late is against it. Tidal Wave was fair, the objection to it being the number of short stems it produces. Quite a number of roses are grown here, principally La France, Albany and Perle; they were all strong and making good growth. A number of hybrids in pots had recently been brought into the houses and were making strong breaks. A house of violets were making a new growth, which was very clean; they had become so infested with fly during the fall that freezing had to be resorted to as a means of ridding them; at present they promise well for the balance of the season. A block of Harrisii in pots were remarkably uniform. A bench of callas in the same house in 12-inch pots were remarkably vigorous.

There is another florist in town. He arrived in Mr. John Young's family as a New Year's gift. The added importance can be seen in the manner in which Mr. Young carries his cane. He is kept busy responding to congratulations.

R. F. T.

Buffalo.

Business for this season must be called nothing but extremely dull. This is a time when social events have in former years come thick and fast and kept us all busy. This year since the holidays there has been a perfect cessation of such occurences. The weather has been altogether out of season for a northern city—one day a little freezing and the next none, and mostly none. But the weather has nothing to do with the business. It is simply that there are no fashionable weddings, and parties of various kinds are dispensed with and the money and energy of our wealthy people are devoted to charity's cause, for which every big city seems to have plenty of opportunity this winter.

Flowers of all kinds are plentiful and are bound to be until Easter time comes. This would be an excellent time for those growing flowers to think deeply before erecting more glass the coming season. Flowers from September until close to Christmas were plentiful, very low in price; only the best found a market, and enormous quantities were wasted. A few days after New Year's they again dropped to a very low figure and are bound to remain so for the balance of the season. Only for the short space of two weeks was the supply short of the demand and the prices good. Can we afford to increase our area of glass for that brief time? I think not, and for the general health of our trade it would be much better to let the demand outstrip the supply. It would be a pleasant task to catch up.

With all the dull times our club brought off its first "smoker" with a good deal of success. The talent displayed towards the evening's amusement was remarkable. A few friends of the florists gave us some fine instrumental as well as vocal selections. And nothing "Soothes the savage breast" between stories like music. The efforts of several of the members are worthy of mention. None shone out so brilliantly as our worthy president (D. B. Long). His stories of his own boyhood in connection with "deestrict" schools, rural "meetin" houses, etc., were given in anecdote style. Mr. Charlie Keitch was little behind the best in the same style of anecdotes, too seldom heard nowadays. The professor (J. F. C.) favored us with a reading from Mark Twain's latest, and got Niagara Falls, the Garden of Eden, Adam and Eve and chestnuts so mixed up it was difficult to follow him, but it was fine withal. Mr. Mepsted gave us a splendid exhibition of Indian club swinging. Mr. Belsey sang sweetly "Never too late to mend." Mr. Constantine, who participates in nothing frivolous, gave us a philosophical talk, and in an interesting talk talked about

what we ought to talk about. W. S. started to sing "Annie Laurie," but was stopped in the middle of the line of the first verse and subsided. In fact all helped to make it a very pleasant evening, and we feel sure that on another similar occasion many more will attend. We all went home well pleased with a most pleasant recollection and a corn cob pipe of our first smoker. W. S.

Montreal.

The New Year's business was away behind this year. The principal florists say their trade this year was 25% less than on the first of January, '93.

Flowers, on account of the unusual dark weather, are scarce, especially carnations and roses. Christmas prices still rule for carnations. There is talk of one of our oldest established concerns moving to a place outside the city, where they will have more elbow room, and should it take place we look forward to seeing an establishment in size and style fully "up to date."

Harry Stocking, the hard working and popular secretary of the G. and F. Club, who has been some time foreman for Mr. Bennett, St. Denis street, has left there and has taken a similar position at the "Broadland" nursery, Cote St. Paul.

There is a movement on foot to bring about the amalgamation of the G. and F. Club with the Montreal Horticultural Society, and a committee of the latter society was named at their last meeting to consider the question, but we have not heard of a meeting of the committee yet.

Mushrooms are a drug on the market here just now, and if all the mushroom beds that were put down last fall in this locality materialized they would be worth about as much per pound as cabbages.

We hear a great many complaints about Garfield carnation. It is turning single with many growers. We would like to know the cause. BEAVER.

Worcester, Mass.

Since the holidays everything has been rather quiet and trade poor. Stock of all kinds is plentiful and extra good and prices very reasonable. Carnations are coming in in large quantities and are very fine. Noticeable among the best are J. J. Harrison, Lizzie McGowan, Daybreak and E. G. Hill; this last we consider our best scarlet, as it is of a good bright color, fair size, doesn't burst, comes on a long, strong stem and is a free bloomer. White Dove is also a fine thing, which I think will pan out well in this vicinity. Roses are not coming very fast, though there is no particular shortage, as the demand has slackened considerably. The demand for violets, which has been very fair, has kept the price up to $2 a 100 retail.

Receptions and balls are conspicuous by their absence, and although a few society people have given Germans, they seemed to do it on the economical plan, so the florist disconsolately sings "There's nothing in it."

We have been having very mild weather, with a large percentage of dark days, but it has suddenly grown colder, the thermometer dropping to five below zero last night.

Edwin Lonsdale and Wm. J. Stewart spent the afternoon and evening of the 11th with us and were the guests of Hermann Lange and left on the midnight for New York.

The Horticultural Society has issued its lecture schedule, which includes addresses and readings by prominent floriculturists and horticulturists, and will wind up with a big reunion and banquet.

SEEDLING.

ELIZABETH, N. J.—Christmas trade was about 10% larger than last year. Prices about as usual at the season. Supply was equal to demand. Quality superior.

PITTSFIELD, MASS.—At the annual meeting of the Berkshire County Gardeners' and Florists' Club President Walter Cutting and Secretary W. M. Edwards were re-elected for another year.

RICHMOND, VA.—Christmas trade was much better here this year than last owing to the favorable weather. Prices were about the same as last year and American Beauties, pink roses and violets were the leading flowers. One firm alone sold 25,000 violets on December 23. The increase in trade is estimated at about one third.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—To learn the florist business. C. A. M. PIPER, 7 Winthrop St., Worcester, Mass.

SITUATION WANTED—By first-class gardener and florist in private place. Good references. Address O M, care American Florist, Chicago.

SITUATION WANTED—By a single man, aged 26; private or commercial; 6 years' experience, spent in two places. Address S Q D, 66 Tappan St., Melrose, Mass.

SITUATION WANTED—In commercial place, by a man thoroughly experienced in general greenhouse and floral work. Good references furnished. Address J A G, care Geo. A. Sutherland, 67 Bromfield St., Boston, Mass.

SITUATION WANTED—As gardener, in a commercial place preferred; have been in present place 14 years as head gardener. Am also a first-class design maker. Good recommendations given. Address G. P. WENTWORTH, Bucksport, Me.

SITUATION WANTED—By florist; practical and sober; 8 years' experience in growing roses, chrysanthemums and carnations. Can furnish first-class references. Address ROSE GROWER, care American Florist.

SITUATION WANTED—By a German, single, age 31; 17 years' experience in growing roses, palms and general stock, including propagation; wants situation by February or March. Best of references. Address E F, care American Florist, Chicago.

WANTED—Charge of greenhouses. Can invest a small capital. D R, care American Florist.

WANTED—Seed and plant catalogues. Address J. F. BROWN, E. Haven Hosp'tl, Richmond, Ind.

WANTED—Single man, experienced in propagating and growing of roses and chrysanthemums. Address, stating wages desired, etc., P. O. Box 556, Cincinnati, Ohio.

WANTED—A young man (German) of good habits, who understands general greenhouse work. Steady employment. State wages wanted. ERNST NITSCHE, Dallas, Texas.

FOR SALE—Six large lots near Milwaukee Ave, 4 miles from Court House. Ground has been used for florist garden 11 years. Address C. E. WOOLLEY, 599 Fulton St., Chicago.

WANTED—A competent and reliable florist to grow cut flowers and plants. Permanent place; good treatment and fair wages. Address EAST PA., care American Florist, Chicago.

WANTED—A young man for general greenhouse and nursery work; $20.00 per month and board. Will increase wages and give steady employment to the right man. H. KADEN, Gainesville, Texas.

FOR SALE—$6,500 will purchase 12,000 square feet of glass, well stocked; 1 acre of land, and 8-room dwelling, in Chicago; or will rent greenhouses. Address H. S DIETRICH & CO., 90 La Salle St., Chicago.

WANTED.

Experienced florist and propagator. As good a position as this country affords to the right man. Must be a thorough rose grower of executive capacity. Address B, care American Florist.

CONTRACT NOW for FORCING ROSES

for your next season's planting and secure well rooted stock grown specially for your order. Last year, owing to the heavy demands made upon us at planting time, we were unable to fill many orders, thus disappointing our customers. We are now contracting to grow, for delivery when wanted, the leading varieties of forcing roses—including the new kinds. **BRIDESMAID**, the best pink grown; **KAISERIN** and **TESTOUT**; also Meteors, Beauties, Woottons, Brides, La France, etc., etc.

We earnestly request intending purchasers to submit us a list of their wants, and we will be pleased to quote them special prices for strong, well rooted plants to be delivered when they may designate.

We make a Specialty of Growing Roses for the trade. Having experienced and competent growers. Our stock is first-class in every particular and we **guarantee satisfaction.** Of the many hundred unsolicited testimonials we append the following; "Roses got of you last year have been the best bearers we have in our houses. RIVERSIDE FLORAL CO., Marshalltown, Iowa."

Order Early and secure the Best.

L. L. MAY & CO.,

Florists and Seedsmen, ST. PAUL, MINN.

Our Wholesale and Retail Catalogue for 1894 mailed free on application.

HEADQUARTERS FOR ROSES.

100,000 READY NOW.

ALL SORTS. BEST VARIETIES.	Per 100	Per 1000
From 2-inch pots, our selection . .	$ 3.00	$30.00
From 3-inch pots, our selection . . .	5.00	50 00
From 4-inch pots, our selection . . .	12.00	110.00
Hybrid Perpetuals, from 2-inch pots, in 50 leading sorts.	4.00	40.00

Special Varieties at Special Rates.

Send your lists to be priced. Wholesale and Retail Catalogue ready and free to all.

We mention only a few leading sorts of Roses.

Bon Silene, Comtesse de Labarthe, Bride, Mermet, Etoile, Sombreuil, Dijon, Malmaison, Clothilde Soupert, Eliza Fugier, Kuster, Niel, Hermosa, Meteor, Lamarque, La France, Guinoiseau, Sunset, Krueger, Perle, Niphetos, Solfaterre, and a hundred others. ADDRESS

NANZ & NEUNER,
Louisville, Ky.

Forcing Roses.

A stock of the best varieties always on hand.

M. A. HUNT, Terre Haute, Ind.

Hybrid Perpetual Roses,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

ROSES.

	Per 100	Per 1000
1560 Perle, 3-inch	$ 5.00	$40.00
1000 " 2½-inch	3.00	25.00
600 Bride, 2½-inch	3.00	25.00
1200 Mermet, 2-3-inch	3.00	25.00
200 Hoste, 2½-inch	3.00	

BROWN & CANFIELD, Springfield, Ill.

ROOTED CUTTINGS.

Brides, Cusins,
Bridesmaids, Niphetos,
Meteors, Perles,
Hostes, Beauties,
Mermets, Testouts, La France.

☞Address for quotations

T. W. STEMMLER,
Villa Lorraine Roseries, MADISON, N. J.

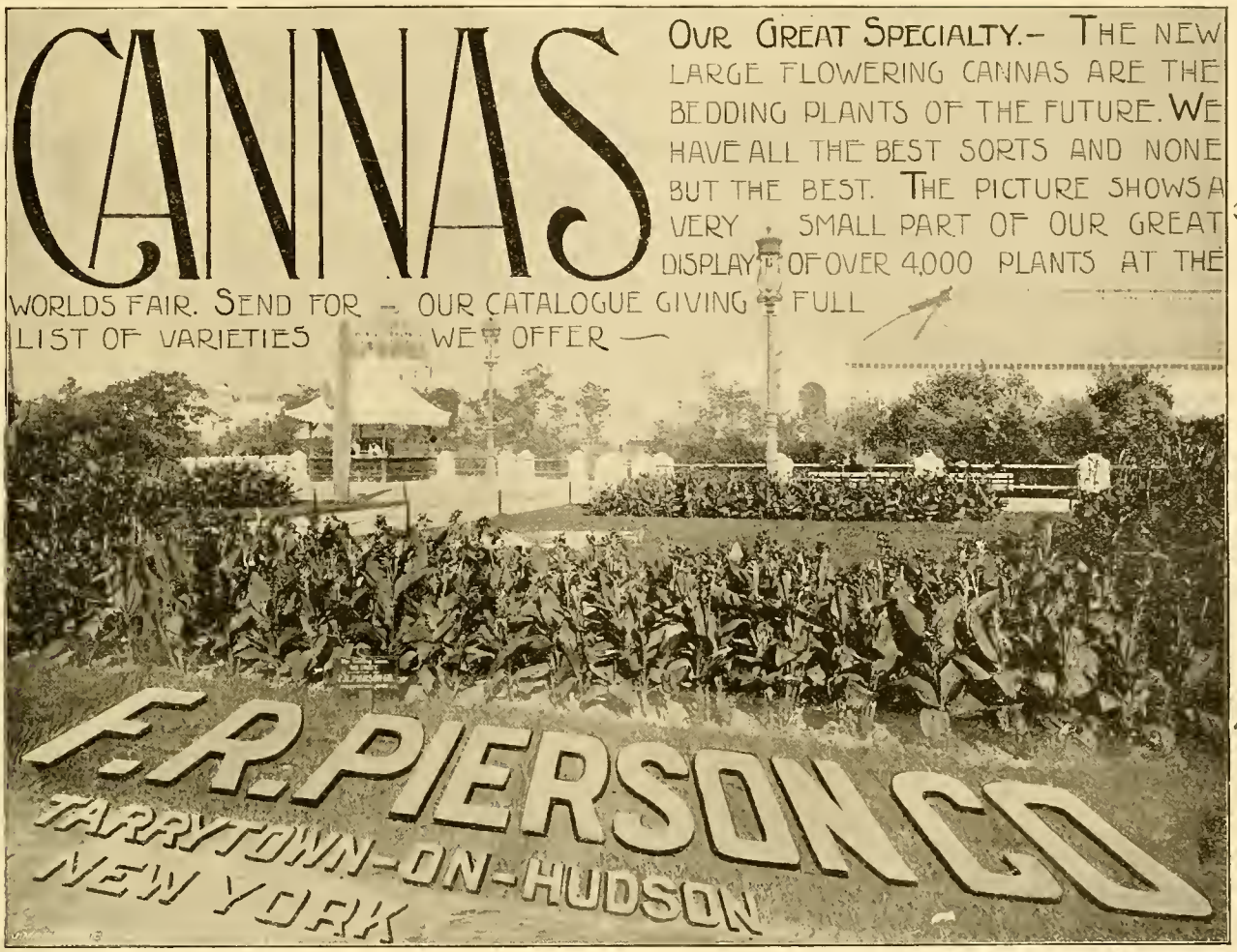
HEADQUARTERS for WATER LILIES

SEED of Red, White and Blue varieties, 50 cts. per trade pkt.

Nelumbium speciosum (Egyptian Lotus), N. s. roseum, N. luteum. Prices on application.

My Columbian Novelties will be ready for distribution this spring. These include such vars. that received special award at the World's Fair, and other rare vars.

Wm. TRICKER, DONGAN HILL New York.



ROOTED CUTTINGS. Per 100

Alternantheras, Versicolor, Rosea nana, Aurea nana, Tricolor and P. Major	$.50
Achyranthus of sorts	1.00
Coleus of sorts	.50
" best new and old	1.00
Parrots Feather, Fuchsias	1.00
Mexican Primroses, 3 kinds	1.00
Heliotrope	1.00
Fittonia, red veined, $2.00; silver veined	1.50

PLANTS.

Alternantheras, full of cuttings	3.00
Begonias, assorted; Lantanas, assorted	4.00
Fuchsias, nss't; Heliotrope, nss't.	$3.00 and 4 00
Abutilons, assorted	4 00
Echeveria glauca	$2.00 and 3.00
" Extensa globosa, 6 to 12 in. across 25 & 50c. ea.	
Achyranthus, assorted	3.00
Coleus, assorted	$2.00 and 3.00
Hibiscus, assorted	4 00
" Schizopetalus	6.00
Anthericum picturatum	per dozen, 75c.

ROBT. S. BROWN & SONS,
Box 99. KANSAS CITY, MO.
Mention American Florist.

CYCLAMEN GIGANTEUM from best seed, strong plants, showing bloom, in 4 and 5-inch pots, $8, $10, $20, $30 and $50 per 100. Dozen at same rates. Assorted colors.

PRIMULA CHINENSIS, in variety of foliage and color, 4-inch pots, $8, $10 and $12 per 100. Dozen at same rates.

Promptly shipped at "FLORISTS" Express rates.
A. S. MacBEAN, Lakewood, N. J.

E. G. HILL & CO.,
Wholesale Florists
RICHMOND, INDIANA.

EXTRA CHOICE FLOWER SEEDS.
List free on application.
FRED. ROEMER, SEED GROWER,
QUEDLINBURG, GERMANY.

HOW TO GROW CUT FLOWERS.
A PRACTICAL TREATISE ON
THE CULTIVATION OF THE ROSE,
And Other Flowering Plants for **Cut Flowers,** sent to any address upon receipt of **$2.00.** **M. A. HUNT, Terre Haute, Ind.**

100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.
Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.
NO RUST OR MILDEW.
Packed light, and satisfaction guaranteed. Send for circular. . . .
We are the largest growers of Verbenas in the country. Our sales reaching last year 215,500. Our plants this year fully equal, if not surpass, any we have ever grown.
J. L. DILLON, Bloomsburg, Pa.



TRY **DREER'S GARDEN SEEDS,**
Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
HENRY A. DREER,
Philadelphia, Pa.
Mention American Florist.

CLEMATIS.
I have choice lot of nice, well rooted, one year plants, very suitable for potting now; these will make fine strong plants by sales time, grown in cold house and treated same as H. P. and other roses, in variety, Jackmanni, Duchess Edinburg, Henryii, C. Lovelace, Fairy Queen, Lady Neville, Gem, P. Alexandra and others, $1.50 per doz.; $12 per 100. Two year in var. $3 per doz.; $20 per 100.
F. A. BALLER, Bloomington, Ill.
Mention American Florist.

200,000 Pansies.
The Jennings strain of large flowering and fancy pansies may still be had in any quantity wanted. Plants are field grown, and are fine and stocky. Finest mixed, by Express, $5.00 per 1000; 5000 $20.00; 10,000 $35.00. Small plants by mail, 60c. per 100.
Seed, pure white, yellow or mixed, $1.00 per trade pkt. of 2,500 seeds. The leading strain. The largest sales. Always satisfactory.
ADDRESS **E. B. JENNINGS,**
WHOLESALE PANSY GROWER,
Lock Box 254. SOUTHPORT, CONN.

P. SEBIRE & SONS,
Nurserymen, USSY, Calvados, FRANCE.
A general assortment of Fruit Tree Stocks, such as Apple, Pear, Myrobolan Plum, Mahaleb and Mazzard Cherry, Angers Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, etc. The largest stock in the country. Prices very low. Packing secured. Catalogue free. Send for quotations before placing your order elsewhere. Agents for U. S. America and Canada.
C. C. ABEL & CO., P. O. Box 920, New York.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

WHILE IT IS TRUE that there has been exaggeration and misrepresentation in some horticultural catalogues, and that these have worked injury to horticulture, it is certain that the great majority, giving honest descriptions and much information of real value, have been a powerful factor in the wonderful advancement in the last quarter of a century. Among this educational class of catalogues that of the Philadelphia firm of W. Atlee Burpee & Co. has always ranked high, and the copy of their annual for 1894, just received, shows a marked advance. But what makes it worthy of special note is the list of books on horticultural subjects therein given, all published by this firm and offered in such a way that they are beyond the reach of none. In this work Mr. Burpee is conferring an incalculable benefit upon every one interested in horticulture. To be sure the books contain his advertisements and much benefit will accrue to his firm, but at the same time such broad dissemination of really useful and dependable information on horticultural subjects can not fail to indirectly benefit a host of others. For the books are good—not trashy compilations such as are too often foisted upon the public. Each is written by a practical specialist, is free from theoretical vaporings and gives really helpful information. Most of these little books are about growing various vegetables, but the latest addition is "The Beautiful Flower Garden," by F. Schuyler Mathews, about which we shall have something to say later.

A BOX OF PRIMULAS, received from Henry S. Rupp & Son, Shiremanstown, Pa., included some excellent forms, both for size and color. A fine white, two inches in diameter, some good rose pink and cerise, and a cristate form of fimbriata were all fine. Our standard for these flowers is now high, and every dealer should rigorously weed out the flimsy or poorly colored specimens, which cannot compete with high grade flowers.

GEORGE A. SUTHERLAND,
SUCCESSOR TO
PECK & SUTHERLAND,
Successors to WM. J. STEWART,
CUT FLOWERS
and Florists' Supplies.
WHOLESALE.
67 Bromfield St., BOSTON, MASS.

CORBREY & McKELLAR,
Wholesale and Commission Florists,
Phone Main 4508. 45 Lake Street, CHICAGO.
We handle only choice stock and give buyers the benefit of low prices and first-class flowers. When market is over stocked write us for Special prices.
We are booking orders now for the finest stock in the west, of **BRIDESMAID,** from 2-inch pots, for February delivery, at $6.00 per 100; $50 00 per 1000.
BOOK YOUR ORDERS NOW.

FOR DECORATING, NOTHING CAN EQUAL
ASPARAGUS PLUMOSUS NANUS.
CUT STRINGS 8 TO 12 FEET LONG, 50 CTS. 12 TO 18 FEET LONG, $1.00.
Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.
W. H. ELLIOTT, Brighton, Mass.

HARDY CUT
FERNS!
5,000,000 ON HAND.
EVERYTHING GREEN ALWAYS IN STOCK.
H. E. Hartford,
18 Chapman Place, BOSTON, MASS.

Cut Smilax
AND ROSE PLANTS.
Satisfactory prices on application.
THE NATIONAL PLANT CO.,
Dayton, Ohio.

W. ELLISON,
WHOLESALE
Cut Flowers AND Florists' Supplies
1402 PINE STREET,
St. Louis, Mo.

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
WHOLESALE
FLORIST,
1122 PINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

Wholesale Florists
The La Roche & Stahl Flower Co. Limited.
N. E. CORNER
13th & Chestnut Sts.
PHILADELPHIA.

SAMUEL S. PENNOCK,
Wholesale Florist
REAR OF 42 S. 16th STREET,
Philadelphia, Pa.

H. L. SUNDERBRUCH,
Wholesale Florist
4TH AND WALNUT STREETS,
Cincinnati, O.

DAN'L B. LONG,
COMMISSION • FLORIST,
495 Washington St., BUFFALO, N. Y.
FORCING BULBS, FLORISTS' SUPPLIES, LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application.

REED & KELLER
MANUFACTURERS OF FLORISTS' WIRE DESIGNS.
122 W. 25TH ST. NEW YORK

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO.

	Per 100
Perles, Niphetos, Gontier	$ 2.00@$ 4.00
Bride, Mermet, La France	4.00@ 6.00
Meteor, Bridesmaid, Testout	5.00@ 7.00
Carnations, long, white	1.00@ 2.00
" " colored	1.50@ 2.00
" short	.75@ 1.00
Smilax	15.00
Callas, Harrisii	12.50
Romans, Paper White Narcissus	2.00@ 3.00
Violets	1.00@ 1.50
Lily of the Valley	4.00@ 5.00
Adiantum	1.00
Ferns, common, per 1000 $2.50	.25

Cycas leaves, fresh, each $1; same preserved, each 75c.
Western Agent for the GREAT ANTIPEST.

FLINT KENNICOTT, President. FRED. W. H. SUNOMACHER, Sec'y and Treas.

Kennicott Bros. Co.
34 & 36 RANDOLPH STREET,
CHICAGO.
WHOLESALE CUT FLOWERS,
and FLORISTS' SUPPLIES.
WIRE WORK A SPECIALTY.

General Agents for Chicago and the Northwest of Kelsey's Beautiful New Southern **Galax Leaves**, $2.00 per 1000; 25 cents per 100.

A. L. RANDALL,
Wholesale Florist,
126 Dearborn St., CHICAGO.

Agent for finest grades Waxed and Tissue Papers.

J. B. DEAMUD & CO.
WHOLESALE CUT FLOWERS,
45 LAKE STREET,
IN CUT FLOWER EXCHANGE, CHICAGO.

REINBERG BROS.
WHOLESALE GROWERS OF
CUT FLOWERS
Roses, Carnations and Violets Specialties.
51 WABASH AVENUE,
Telephone 4937. CHICAGO.

WELCH BROS.,
WHOLESALE FLORISTS,
JOBBERS IN . . . FLORISTS' SUPPLIES,
METS, BRIDES, GONTIERS, CARNATIONS, ALWAYS ON HAND. FLORISTS' VASES.
1 Music Hall Place,
BOSTON, MASS.
HORTICULTURAL AUCTIONEERS. . .

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St., BOSTON, MASS.

Wholesale Markets.

Cut Flowers.

NEW YORK, Jan. 15.	
Roses, Gontier, Niphetos	1.00@ 3.00
" Perle	2.00@ 3.00
" Cusin, Watteville	2.00@ 6.00
" Mermet, Bride	2.00@ 6.00
" Bridesmaid	4.00@ 8.00
" Testout, La France	4.00@10.00
" Meteor	4.00@12.00
" Beauty	5.00@50.00
" Hybrids	15.00@50.00
Violets	.35@ 1.50
Carnations	.50@ 1.00
" fancy	2.00@ 4.00
Valley	2.00@ 4.00
Roman Hyacinths, Paper White Narcissus	1.00@ 2.00
Daffodils	4.00@ 6.00
Mignonette, bunches	10.00@25.00
" fine spikes	2.00@ 8.00
Cypripediums	10.00@15.00
Callas, Harrisii	5.00@10.00
Smilax	5.00@15.00
Adiantum	.50@ 1.00
BOSTON, Jan. 15.	
Roses, Niphetos	3.00
" Gontier	4.00
" Perle, Sunset	5.00@ 6.00
" Bride, Mermet	6.00@10.00
" American Beauty	15.00@50.00
Carnations	1.00@ 2.00
Lily of the valley	4.00
Roman Hyacinths	1.00@ 1.50
Paper white narcissus	2.00
Trumpet narcissus	2.00@ 6.00
Freesia	2.00@ 4.00
Callas	12.00@16.00
Harrisii	12.00@20.00
Mignonette	2.00@ 8.00
Violets	1.00
Adiantum	1.00
Smilax	12.50
Asparagus	50.00
PHILADELPHIA, Jan. 15.	
Roses, Perle, Gontier, Niphetos	3.00@ 4.00
" Cusin, Watteville, Hoste	4.00@ 6.00
" Bride, Mermet, La France	6.00@10.00
" Kaiserin, Bridesmaid, Testout	8.00@12.00
" Belle, Beauty	25.00@40.00
" Brunners	50.00
" Lainas	25.00@35.00
Carnations, H. Keller	7.00
" Ophelia, Sweetbrier, Daybreak	2.00@ 3.00
" Edna Craig	3.00@ 4.00
Valley	3.00@ 4.00
Romans, Narcissus	2.00@ 4.00
Smilax	12.00@16.00
Adiantum	1.00@ 1.50
Violets, single, per 100 bunches	$3.00@$5.00
" double	1.00@ 1.50
Mignonette	1.50@ 2.50
Asparagus	50.00@75.00
Harrisii lilies	12.00@15.00
Callas	6.00@ 8.00
Freesia	1.00@ 1.50
CHICAGO, Jan. 16.	
Roses, Beauty	10.00@35.00
" Bride, Mermet, La France	3.00@ 6.00
" Perle, Niphetos, Gontier	3.00@ 5.00
" Meteors	5.00@10.00
" Wootton, Bridesmaid, Testout	5.00@ 8.00
Carnations, short	.35
" long	1.00@ 1.50
" fancy	2.00@ 3.00
Violets	1.00@ 2.00
Valley	4.00@ 5.00
Romans, paper white	1.00@ 3.00
Harrisii, Callas	5.00@15.00
Cattleyas	50.00
Adiantum	1.00
Asparagus	50.00
Smilax	15.00
ST. LOUIS, Jan. 13.	
Roses, Perles, Niphetos, Wootton	4.00
" Watteville, Hoste	5.00
" Bride, Mermet, Bridesmaid	4.00@ 5.00
" Meteor	6.00
" La France	4.00@ 5.00
" Gontier	3.00
" Beauty	5.00@35.00
Harrisii	12.00
Callas	8.00@10.00
Narcissus	3.00
Romans	2.00
Valley	4.00
Carnations, long	1.00@ 2.00
" short	1.00
Smilax	15.00
Adiantum	1.25
Violets, double	1.00
" single	.25
CINCINNATI, Jan. 12.	
Roses, Beauty	25.00@40.00
" Mermet, Bride	5.00@ 6.00
" Perle	4.00
Narcissus Trumpet major	4.00@ 5.00
" paper white	2.00@ 3.00
Callas	8.00
Harrisii	12.50
Violets	.50@ 1.00
Valley	4.00
Romans	1.00@ 2.00
Smilax	10.00@15.00
Adiantum	1.00@ 1.25
Asparagus	50.00@75.00
BUFFALO, Jan. 15.	
Roses, Beauties	15.00@30.00
" Mermet, Bride	5.00@ 8.00
" Bridesmaid, La France	6.00@10.00
" Goutier, Perle, Hoste	4.00@ 6.00
" Cusin, Watteville	5.00@ 6.00
" Meteor	6.00@12.00
Valley	4.00@ 5.00
Violets	1.00@ 1.50
Hyacinths	2.00@ 4.00
Narcissus	3.00@ 4.00
Carnations, long	1.50@ 2.50
" Daybreak	2.50
" short	1.00
Tulips	3.00@ 4.00
Callas, Harrisii	12.50
Smilax	15.00
Adiantum	1.50
Asparagus	50.00

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
Wholesale Dealers in and Shippers of
Choice Flowers
OUR SPECIALTIES:
AMERICAN BEAUTIES, METEORS. BRIDESMAIDS.

CUT FLOWERS.
ROSES, standard varieties and novelties
Carnations, all the new sorts in finest quality.
VIOLETS, MIGNONETTE AND VALLEY.
FIRST QUALITY STOCK. WHOLESALE ONLY.
THOS. YOUNG, JR.,
20 WEST 24TH ST., NEW YORK.

WALTER F. SHERIDAN,
· WHOLESALE ·
FLORIST,
32 West 30th Street, NEW YORK.
Roses Shipped to all points. Price list on application.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS,
51 W. 30th St., NEW YORK.

JAMES HART,
WHOLESALE FLORIST.
117 W. 30TH ST., NEW YORK.
The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHRS,
WHOLESALE
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.
Established 1879.

MILLANG BROS.,
Wholesale Florists,
17 WEST 28TH STREET,
NEW YORK.
BRANCH: Cut Flower Exchange, 408 E. 34th Street.

Edward C. Horan,
34 W. 29th Street, NEW YORK,
WHOLESALE FLORIST.
Careful Shipping to all parts of the country
Price list on application.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and treasurer, 114 Chambers street, New York. Next annual meeting second Tuesday in June, (will probably be held in Toronto.)

KEOKUK, IA.—John G. Hartel, the seedsman, died suddenly January 4.

Catalogues Received.

R. & J. Farquhar & Co., Boston, Mass., flower seeds; James Vick's Sons, Rochester, N. Y., seeds and plants; Geo. Hancock & Son, Grand Haven, Mich., carnations; H. Cannell & Sons, Swanley, Kent, England, seeds; J. C. Gibson, Woodbury, N. J., seeds and plants; Benj. Chase, Derry, N. H., wood labels; Zocher & Co., Haarlem, Holland, Dutch bulbs; Ch. Molin, Lyon, France, new plants; Iowa Seed Co., Des Moines, Ia., seeds and plants; Good & Reese Co., Springfield, O., plants and seeds; T. W. Wood & Sons, Richmond, Va., seeds; Plant Seed Co., St. Louis, Mo., seeds.

Springfield, Mass.

At the annual meeting of the Amateur Horticultural Society officers for 1894 were elected as follows: President, Chas. L. Burr; 1st Vice-President, Rev. W. T. Hutchins; 2nd Vice-President, Jos. Aumer; 3d Vice-President, Mrs. W. H. Pinney; Secretary, Geo. H. Lapham; Treasurer, L. D. Robinson.

Arrangements were made to hold a spring exhibition June 19 and 20. It was also decided to have a fall exhibition this year but date was not fixed.

At the next meeting of the society, February 2, the subject for discussion will be "Hardy roses," and invitations to be present will be sent out to the Hartford, Holyoke and Hampden county horticultural societies.

WE HAVE RECEIVED some very fine carnations and Souvenir de Wootton roses from Mr. Loveridge, manager for J. C. Murray, Peoria, Ill. The carnations included Daybreak, Tidal Wave, Lizzie McGowan and Silver Spray. Daybreak, which Mr. Loveridge considers the most profitable variety he grows, was particularly fine, equal to the very best we have seen this winter. Tidal Wave, which is mentioned as next to Daybreak the most profitable variety to grow, was good; so were the white sorts, McGowan being the finer of the two. The roses were excellent, with fine stems and clean foliage; the grower writes us that this is his first trial of Wootton, which he finds very profitable.



Water Lilies

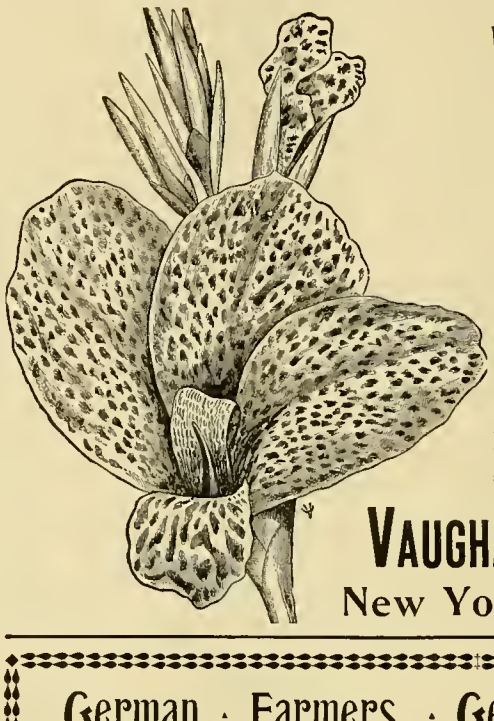
Finest stock of Egyptian and American Lotus, and hardy Nymphæas in the country. Lowest prices. Our new N. Superba is the best known aquatic in fish culture. Several thousand Water Hyacinths at $2.50 per 100. If interested in this line write us, we can save you money. Geo. B. Moulder, Lily Park, Smith's Grove, Ky.

FRESH IMPORTED ORCHIDS.

Cattleya Gaskelliana,

5—7 Bulbs, $.75 each.
7—12 Bulbs, 1.25 each.
Larger plants, $2.00 to $5.00 each.

I. FORSTERMAN,
Newtown, N. Y.



WHY do so many Canna Growers say they have a YELLOW Canna "As good as Florence Vaughan?"

Robert Craig, Chairman of Committee of Awards in Floriculture at World's Fair, says, Dec. 6, 1893: "Florence Vaughan has proved to be all that was claimed for it; it is still far superior to any Yellow Canna in commerce."

VAUGHAN'S SEED STORE,
New York. CHICAGO.

German · Farmers, · German · Gardeners and · Amateurs

are considered very **Desirable Customers** by all Seedsmen, Florists and Nurserymen You can reach almost **THIRTY THOUSAND** of them in all parts of the United States by advertising in Der

Herold des Glaubens,

CATHOLIC GERMAN WEEKLY JOURNAL

Published at 309 Convent Street, St. Louis, Mo., since 1850.

Net Advertising Rates per inch, from which there is no Deviation:

1 Time	$ 1.68
4 Times	4.00
13 Times	10.00
26 Times	17.50
52 Times	31.20
1000 Lines in one year	42.50

Do not allow your advertising agent to substitute another paper as being "just as good," etc, but *insist* upon going in **Der Herold Des Glaubens.**

Siebrecht & Wadley,

ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.

Palms,
ORCHIDS,
Roses,
and New Plants.

FRESH DRACAENA CANES NOW READY.

ORCHIDS.

The Finest Stock in the World.

SANDER'S,
ST. ALBANS,
ENGLAND.

Thirty minutes from London.

Our Mr. A Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

BARGAINS,

GOOD PLANTS, and ready to ship NOW.

	Per 100
Geraniums, best bedders, strong, 2-inch.	$ 2.00
" La Favorite, best double white, 2-in.	2.00
" Mme Sallerol, very stocky, 2-inch	1.50
" Rose Scented, 2-inch	2.00
" Bronze, strong, 2-inch	3.00
Coleus, splendid assortment, 2 in...$12.50 per 1000.	1.50
" Golden Bedder (alone), strong, 2-inch	2.00
Heliotropes, 2-inch	2.00
Fuchsias, good assortment, 2-inch	3.00
Canna Mme. Crozy, dry bulbs, $1.00 per dozen.	

I have the following in **ROOTED CUTTINGS,** ready to ship any day.

Geraniums, best bedders, 5 to 20 varieties	$ 1.25
" La Favorite, best double white	1.25
" Rose Scented	1.25
" Mme. Sallerol	1.00
Coleus, about 20 splendid varieties in mixture	.50
" Golden Bedder (when ordered alone)	.75
Double Sweet Alyssum	.50
Verbenas, best varieties	.75
Carnation Portia	1.00
" Lizzie McGowan	1.00
" Puritan	1.25
" Nellie Lewis	1.50
" Fred. Dorner	1.25
" Grace Wilder	1.00
" Aurora	1.50
" Anna Webb	1.00
Alternanthera aurea nana	.50
" P. major	.50

N. S. GRIFFITH, Independence, Mo.

Independence is well located for shipping, being 8 miles East of Kansas City, Mo.

Mention American Florist

FIFTY THOUSAND

PEARL TUBEROSES

F. O. B. NEW YORK.

We offer selected bulbs of above, from four to six inches in circumference, for present shipment, at $9.00 per 1000. Orders accepted subject to being unsold.

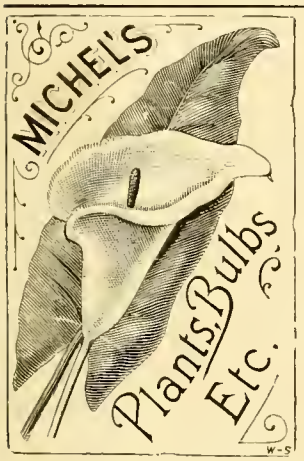
SWEET PEAS, California grown.

We are headquarters for California grown Sweet Peas, and parties desiring to contract for their requirements for season of 1894, will do well to write for prices.

SUNSET SEED & PLANT CO.

(SHERWOOD HALL NURSERY CO.)

427-9 Sansome St., *San Francisco, Cal.*



Write for Wholesale List.

MICHEL PLANT AND BULB CO., ST. LOUIS, MO.

Hulsebosch Brothers,

OVERVEEN, HAARLEM, HOLLAND.

	Per 100	Per 1000
LILIUM SPECIOSUM ALBUM	$ 6.00	
" " ROSEUM	5.00	
" " RUBRUM	5.00	
SINGLE BEGONIAS, fine bulbs, new crop, finest strain, in 4 separate colors	4.00	35.00
CONVALARIA MAJALIS, German pips	1.00	8.00
TUBEROSES, Pearl and Tall, A1 (big) bulbs	.90	7.50
LOW BUDDED ROSES, in sorts, Dutch Stock	9.00	
English Stock	11 00	

All other plants or shrubs can be ordered for March, '94 delivery.

HULSEBOSCH BROS.,
58 West Street, NEW YORK CITY.

Tuberose Bulbs.

Dwarf Pearl and Tall Double.

Extra select, sound stock, $1.25 per 100; $9.00 per 1000.

W. W. BARNARD & CO.
6 & 8 N. Clark Street, CHICAGO.

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to
Seed Bags and Catalogue Envelopes.
NEW HAVEN, CONN.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

Pitcher & Manda's
PRIZE CHRYSANTHEMUM SEED.

We look for **MARVELOUS RESULTS** from our **NEW CROP** of **CHRYSANTHEMUM SEED,** just harvested.
It is saved only from the

CHOICEST NEW AND SUPERB EXHIBITION SORTS

in existence, after being carefully hand hybridized.



Hybridized Seed, saved from the best double types. 15 cents per trade pkt., 8 pkts. for $1.00.

Hybridized Seed, saved only from **Prize Varieties,** of 1893 introduction. 25 cents per trade pkt., 5 pkts. for $1.00.

Hybridized Seed, saved only from **New Double Seedlings,** of 1892 introduction. 50 cents per trade pkt., 3 pkts. for $1.25.

It is an acknowledged fact, both in this country and Europe, that our collection of Chrysanthemums is the most select and contains more varieties than that of any other house in existence, which fact is made plain by the numerous orders already received from all parts of the globe; but as our stock of this superb strain of seed is limited, orders should be sent in at once.

United States Nurseries, Short Hills, N. J.

Better than Ever for 1894.



Established 1856.

Is Different from Others.

It is intended to aid the planter in selecting the Seeds best adapted for his needs and conditions and in getting from them the best possible results. It is not, therefore, highly colored in either sense; and we have taken great care that nothing worthless be put in, or nothing worthy be left out. We invite a trial of our Seeds. We know them because we grow them. Every planter of Vegetables or Flowers ought to know about our three warrants; our cash discounts; and our gift of agricultural papers to purchasers of our Seeds. All of these are explained in the Catalogue, a copy of which can be yours for the asking.

J. J. H. GREGORY & SON. Marblehead, Mass.

Z. De Forest Ely & Co.

WHOLESALE SEEDSMEN,
Growers AND Importers of Bulbs.
JOBBERS IN
FLORISTS' SUPPLIES.
1024 Market Street, PHILADELPHIA, PA.
Price lists to dealers on application.

SEEDS!
PLANTS! BULBS!

Everything appertaining to the Farm and Garden of the best and choicest quality. PRICES RIGHT.
Catalogue on application.
WEEBER & DON.
114 CHAMBERS ST., NEW YORK CITY.

Ernst Reimschneider, Altona, Germany,

BERLIN LILY OF THE VALLEY PIPS

Extra selected quality, in cases of 3000 pips.
Now in COLD STORAGE WAREHOUSE.
Also for importation on orders, SEEDS, Dried Flowers, Grasses, etc., and Spring Bulbs.
SOLE AGENTS
C. C. ABEL & CO., P. O. Box 920, NEW YORK.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

HEADQUARTERS FOR COLEUS

Golden Queen, Golden Bedder, and Crimson Verschaffeltii specialties; also a large number of other varieties. Rooted Cuttings $6.00 per 1000.
Liberal discount for large orders.

Geraniums, 2½-in. pots, $20 per 1000; $2.25 per 100; from flats, $15 per 1000; $1.75 per 100. Ageratums, blue and white, rooted cuttings, 75c. per 100. Fuchsias, leading sorts, 2½-in. pots, $2 per 100; rooted cuttings, $1.25 per 100. Petunias, Dreer's strain, 2½-in. pots, mixed, $2.50 per 100; rooted cuttings $1.50 per 100; Double White same price. Heliotrope, 4 varieties, rooted cuttings, $1.25 per 100. Salvia Splendens, $1.25 per 100 rooted cuttings. At these prices the selection of sorts to remain with us. Cash must always accompany the order.

J. E. FELTHOUSEN,
370 Van Vranken Avenue, SCHENECTADY, N. Y.

FERRY'S SEEDS

Are just what every sower needs. The merits of Ferry's Seeds form the foundation upon which has been built the largest seed business in the world. Ferry's Seed Annual for 1894 contains the sum and substance of the latest farming knowledge. Free for the asking.

D. M. FERRY & CO.,
Detroit, Mich.

Mention American Florist.

Indianapolis, Ind.

The committee of arrangements of the State Society and local Florists' Club to arrange for the annual meeting of the American Carnation Society, which is to meet in this city February 20 and 21, was held at the Dennison House recently. Among those present were M. A. Hunt, E. G. Hill, Fred Dorner and local members. It was decided to hold the meeting at the Dennison Hotel in rooms 17, 18 and 19. These are arranged in one large room and will seat about 125 to 150 persons. The exhibition will be held in Parlor D on same floor. A committee of the Florists' Club will have charge of this room.

The entertainment for the visitors will be held Tuesday, 7 p. m. This affair of course will be in the usual Hoosier style, only a little more elaborate. Don't be afraid to come to Indianapolis. We want you all and guarantee satisfaction with every invitation.

Sec'y Bertermann of the State Society presented a statement in regard to the past chrysanthemum show. The report is very encouraging. On the strength of it it was at once decided to hold the 8th annual floral festival beginning November 6. A committee consisting of Fred Dorner, Henry Rieman and John Hartje was appointed to get up advance premium list and report at the annual meeting which will be held at the Florists' Club hall January 31 in this city.

The financial statement of the last show is as follows:

Total receipts with balance of last year —$3351.99.

Total expenses—$3197.45.

Leaving balance—$154.54.

A letter from J. D. Carmody, Evansville, explained his inability to be present on account of a crushed foot, which will compel him, as he humorously wrote, to walk on four legs for some time. W. W. Coles of Kokomo explained his absence by being compelled to attend a meeting of stockholders in that city.

The annual meeting of the Society of Indiana Florists will be held in this city January 31, at 8 p. m., in the Florists' Club hall, corner of Massachusetts avenue and New York street. In addition to election of officers and other routine business a paper on "Curiosities in plant life" will be presented by J. J. B. Hatfield.

W. B.

THE ASSOCIATION FLORA,
BOSKOOP, HOLLAND.

NOW ON HAND IN NEW YORK:

CLEMATIS in sorts, 3 years..... per 100 $25.00
SPIRÆA JAPONICA..... " 4.00
DIELYTRA SPECTABILIS..... " 4.00

Lilium speciosum, Pæonias Rhododendrons, Azaleas H. P. Roses, in best varieties, per 100 $9.00: Abel Carriere, Alfred Colomb, Anna Alexieff, A. de Diesbach, B. Rothschild, Fisher Holmes, Gen. Jack, La France, Mme. G. Luizet, Mme. Plantier, Magna Charta, Paul Neyron, P. C. de Rohan, Perle des Blanches, Ulrich Brunner and others. Catalogue on application.

P. OUWERKERK,
206 Cambridge Ave., JERSEY CITY, N. J.

CHOICE SEEDS.
PETUNIA FIM. FL. PL.

The largest and finest strain of double fringed and mottled Petunias to be had. All who see these Petunias say they are the finest they ever saw. Selected specially for florists. Extra.

VERBENA GRAND.

This fine strain of Mammoth Verbenas gives perfect satisfaction to my many customers and is justly claimed to be the finest in cultivation. Florets an inch in diameter, in immense umbels, of the finest colors.

Per liberal Trade Packet of each of the above, 25 cts. 3 pkts. 60 cts.; 6 pkts. $1.00.

JOHN F. RUPP, Shiremanstown, Pa.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

CARNATIONS.

My list is not a big list but it is a mighty good list, and the cuttings are equally good. I would like to quote figures to you on any of the following varieties. In writing please state how many you will want of each variety. Daybreak, Lizzie McGowan, Silver Spray, Grace Darling, Aurora, Portia, Edna Craig, Fred Dorner, J. R. Freeman, Golden Triumph.

Annie Pixley and Helen Keller.

PIXLEY is one of those beautiful light pinks, with a fair sized flower and good, strong calyx. With ordinary culture stems can be cut twenty inches long. The flower is a model in form, and the growth is strong and healthy.

KELLER you know all about, they are both sure to make good paying varieties for cut flowers.

Pixley per 100, $12.00; per 1000, $100.00.
Keller per 100, $12.00; per 1000, $90.00.

Verbena Lancaster Beauty.

Decidedly the prettiest Verbena that grows, novel as well as beautiful and sells at sight.

Price, per 100, $2.00.

PANSIES.—I can still supply a few of those seedling plants at $5.00 per 1000, or 75 cts. per 100. The same good strain I always have.

No list published and terms are cash before shipping or C. O. D.

L. B. 496. ALBERT M. HERR, LANCASTER, PA.

COME AND SEE THE NEW AND BEAUTIFUL FANCY CARNATION
"HELEN KELLER"
(A very much improved "Chester Pride",) GROWING AND BLOOMING.

It is Healthy and Productive. In form, size, and elegance nothing in sight can approach it. It is the greatest novelty among Carnations up to date.

MR. GEORGE M. STUMPP, New York City, said: "How can people help but like it? The flower is large, and a good shape and it has a fine stem. When people buy it once they ask for it again, and that's a good sign. When it may be had in quantity so that it can be used for dinner table or luncheon decorations, it is sure to become popular."

Two houses filled with this sterling new variety are worth going many miles to see: One at Summit, N. J.; the other at Wyndmoor near Chestnut Hill, Phila., where inspection is invited.

Orders booked now and filled strictly in rotation, commencing March 15, 1894. Strong Rooted Cuttings, $3.00 per dozen; $12.00 per 100; $90.00 per 1000.

EDWIN LONSDALE, CHESTNUT HILL, PHILA.
JOHN N. MAY, SUMMIT, N. J.

Rooted Cuttings

COLEUS, 10 sorts, 60c. per 100
BY MAIL.

SAMPLE DOZEN, without names, mailed for 10 cts.

S. O. STREBY,
Lock Box 77,
UPPER SANDUSKY, OHIO.
Mention American Florist.

Daybreak Carnation

A visit from several prominent florists of the State, has convinced me that I have the healthiest stock of the above beautiful carnation in this State. Before leaving my establishment they left orders for Daybreak at $2.50 per 100, and $20.00 per 1000.

I shall have, about Feb. 5th, 50,000 well Rooted Cuttings at the following prices:

$2.50 per 100; $20.00 per 1000.

Terms strictly cash. My customers will please take notice that I cannot accept personal checks. Satisfaction guaranteed.

FRED SCHNEIDER, Wholesale Florist,
ATTICA, Wyoming Co., N. Y.

PALMS.

150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

Address GEORGE WITTBOLD,
1708 N. Halsted St., CHICAGO.

Zirngiebel's Seeds for Florists.

QUALITY GUARANTEED.
GIANT MARKET AND GIANT FANCY PANSIES.
EARLY AND LATE ASTERS, all colors.
EXTRA EARLY DWARF WHITE STOCK, in trade packages, at $1.00 each.

DENYS ZIRNGIEBEL, Needham, Mass.

COLEUS.

A large stock, in 75 varieties, including the very newest kinds.

ROOTED CUTTINGS, in 30 to 40 varieties, at $6.50 per 1000 by express; in 20 varieties, at $1.00 per 100 by mail.
Golden Bedder (true), at $10.00 per 1000; Verschaffeltii, Golden Verschaffeltii, Mrs. I. D. Haight and other yellows at $8.00 a 1000. NEW KINDS, including some of the most handsome ever offered for sale, in 10 varieties, at $2.00 per 100 by mail.
STOCK PLANTS, ordinary kinds at $3.00 per 100; Verschaffeltii and yellows, at $4.00 per 100.
Cash with Order. Safe delivery guaranteed.

CARNATIONS.

ROOTED CUTTINGS of new and leading kinds.

We make a Specialty of BUTTERCUP and STANLEY, of which we have a large stock. $5.00 per 100; $45.00 per 1000. Plants all in prime condition, and an inspection solicited.

Send for circular of both Coleus and Carnations.

W. R. Shelmire,
. . . AVONDALE, PA.

CARNATIONS.

Rooted Cuttings, from flats or pots, leading cut flower varieties. Send for price list.

VERBENAS.

Rooted Cuttings.....$1 00 per 100; $8.00 per 1000
Stock Plants..... 3 00 per 100; 25.00 per 1000

PANSY SEED—The well known Perfection strain. This mixture is the best the market produces.

VERBENA SEED—NEW LARGE FLOWERING. This strain gives a greater per cent. of large flowers, the largest variety and best colors of any known. Send for price list, free.

C. E. ALLEN, Brattleboro, Vt.

FOR IMMEDIATE DELIVERY
40,000 Carnation Cuttings,
of all the best varieties. Send for our list.
HANCOCK & SON, Grand Haven, Mich.

VERBENAS, MAMMOTH, perfectly clean, strong plants, $2 per 100. Transplanted Cuttings, $1.00 per 100. Rooted Cuttings, $6.00 per 1000. All to color. Cash.

W. B. WOODRUFF, Florist, Westfield, N. J.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

A CARNATION of great merit.

FIRST-CLASS CERTIFICATE
MASS. HORT. SOCIETY.

THE "JACQUEMINOT"

The Best Crimson Carnation ever Introduced
——Say leading Carnation growers.——

Is, we believe **FAR IN ADVANCE** of anything in its class, yet introduced. In color, a brilliant solid crimson (lacking any trace of black), blooms large, petals of great substance, and being thrown well out of a strong calyx before expanding, removes the cause of splitting.

The flower stems are long, stiff, and wiry, and when grown on a bench, produces lateral shoots 8 to 15 inches in length with large and perfect flowers. It is **EXCEEDINGLY FREE BLOOMING**, making it **A DECIDED ACQUISITION**.

We would advise all intending buyers to **INVESTIGATE** first, as we want to introduce this gem on **ITS MERITS.** Send 10c. for postage, and WE WILL MAIL SAMPLE BLOOMS. By this means YOU CAN TEST its shipping and keeping qualities AND SEE EXACTLY WHAT WE OFFER.

A NEW AND VALUABLE SHADE in Carnations. ROOTED CUTTINGS READY FEBRUARY 20th.

TERMS: Cash with order.

PETER FISHER & CO.,

PRICE, $ 2.00 per dozen.
10 00 per 100.
80 00 per 1000.

ELLIS, Norfolk Co., MASS.

4 NEW CARNATIONS
FOR 1894.

UNCLE JOHN, white; **THE STUART**, scarlet;
E. A. WOOD, pink variegated;
GOLDFINCH, yellow edged pink.

$10.00 per 100; $75.00 per 1000. Ready April 1st.

Get our 1893 varieties from **Headquarters.** We have extra fine stock of Wm. Scott, (the most profitable pink carnation grown); Mme. Diaz Albertini, Eliz. Reynolds, Richmond, and all the others of our set.

Do not forget to order some Major Bonnaffon, the most perfect Yellow Chrysanthemum ever introduced for show as well as market purposes.
Send for price list.

F. DORNER & SON, La Fayette, Ind.

CARNATIONS

Rooted Cuttings, Now Ready.

	Per 100	Per 1000
DAYBREAK	$3 00	$25 00
BUTTERCUP	4 00	35 00
PURITAN	2 00	15 00
SILVER SPRAY	1 50	10 00
LIZZIE McGOWAN	1 50	10 00
GRACE WILDER	1 50	10 00
PORTIA	1 50	12 00

Cash with order. 10c. per 100 extra when ordered shipped by mail.

Send for wholesale price list of Rooted Cuttings and Plants.

JAMES HORAN, Florist, Bridgeport, Conn.

ROOTED CUTTINGS OF
CARNATIONS

For Immediate Delivery.

Large stock on hand; free from rust or other disease. Satisfaction guaranteed. Send for price list.

JOS. RENARD, UNIONVILLE, Chester Co., PA.

CARNATIONS

Ready February 15th.

DAYBREAK..... $2.50 per 100
SILVER SPRAY, McGOWAN, HECTOR, LADY EMMA, GARFIELD, PORTIA, TIDAL WAVE. $2.00 per 100

Stock free from disease. Order now or you wont be in it.

LAKE GENEVA FLORAL CO., Lake Geneva, Wis.

CARNATIONS AND VERBENAS.

ROOTED CUTTINGS.

We have a large stock of Daybreak, Puritan, Edna Craig, Aurora, McGowan, Nellie Lewis, and other leading varieties. Also immense stock of Mammoth Verbenas.

Send for prices on what you want. Catalogue ready about January 15th. Send for it.

VICK & HILL, Rochester, N. Y.

"COME AND SEE THE BOYS"
——AND——
THE YELLOW CARNATION BOUTON D'OR.

After growing this variety for the past three winters we are convinced that it is the best Yellow Carnation ever introduced.

WHAT WE CLAIM:—That it is decidedly a good, strong grower and free bloomer; color a beautiful yellow penciled with dark carmine. That it is of the best form and fully as large as Buttercup. That the calyx is perfect, the stem long and stiff, and the foliage possibly better than that of any other carnation.

PRICE, $2 per Doz.: $10 per 100; $75 per 1000. ROOTED CUTTINGS READY MARCH 1, 1894.

Orders filled in strict rotation. Come and see it grow and be convinced. Only one hour from New York City.

Dailledouze Bros., Flatbush, L. I., N. Y.

Rooted Cuttings. **CARNATIONS.** Rooted Cuttings.

ALL THE BEST VARIETIES IN CULTIVATION.

FINE STOCKS OF DAYBREAK, EDNA CRAIG AND CARTLEDGE.

NO DISEASE! NO RUST!

Catalogues ready January 1st, '94. Correspondence solicited.

Address **H. E. CHITTY, Paterson, N. J.**

The Best Carnation in the Market.

THE ADELAIDE KRESKEN

Which was originated in 1891, and flowered in the same year, is conceded by all to be the prettiest Carnation ever grown. Strong grower, free from rust, is 2 ft. high, stiff stem, good calyx, and the flower (of a beautiful rosy pink color) averaging three inches and over.

A VERY FREE BLOOMER. In addition to recovering the **Best Seedling Prizes** at Cincinnati, O., Club Certificate at Springfield, Mass., and Milwaukee, Wis., Hunt Prizes, Indianapolis, Ind., it has received Certificates of Merit at the American Florists' Society, St. Louis, Mo.; also the best vase of pinks at St. Louis, Mo., and Certificate of Merit at Toronto. The undersigned begs leave to submit the following exceedingly low prices for **Rooted Cuttings**, which will be ready March 1st, 1894: **$2.00 per doz.: $10 per 100; $45 per 500; $80 per 1000.**

Cash must accompany all orders. Address all communications to

PETER HERB, Mt. Healthy, Hamilton Co., O.

CARNATIONS.

Strong, healthy, well rooted cuttings now ready.

SAMUEL J. BUNTING,
Elmwood Ave. and 58th St., PHILADELPHIA, PA.

For Mildew on Roses
and CARNATION RUST,
USE FOSTITE.

Book on Fostite sent free.

Address C. H. JOOSTEN,
3 Coenties Slip, NEW YORK.

SWEETBRIER

Received 1st Premium for "best seedling of any color" at Phila., Nov. 7, '93. Color between Daybreak and Wilder.

Flowers brought $5.00 per 100 wholesale, at J. R. Freeman's, Washington, last winter.

"I like its color better than Daybreak."
EDWIN LONSDALE.

"Sweetbrier is all that can be desired."
W. A. MANDA.

Rooted cuttings, $10 00 per 100; $80.00 per 1000. Delivery to begin February 1, '94.

VIOLET LADY CAMPBELL.

ROOTED RUNNERS, $3.00 per 100; $25.00 per 1000.
Send for price list.

EDW. SWAYNE,
KENNETT SQUARE, PA.

Carnations.

Field plants all sold.

Orders solicited for early delivery of **ROOTED CUTTINGS** in varieties suitable for summer blooming.

C. J. PENNOCK,
The Pines. KENNETT SQUARE, Chester Co., PA.

50,000 Carnations.

ROOTED CUTTING READY.
NO "RUST."
SEND FOR LIST. . . .

Wm. Swayne,
P. O. Box 226. KENNETT SQUARE, PA.

Mention American Florist.

Baltimore.

A gentleman connected with the trade here, when asked to give his opinion as to the cause of the hard times here, remarked about as follows: "The people haven't the money to spend. Aside from the fact that all business is, and has been, very dull all summer, there were sixty thousand tickets sold by the railroads here for the World's Fair; that, allowing each visitor to spend on the trip one hundred dollars, means a drain out of the city of six million dollars, with no return of a business nature whatever, or about twelve dollars for every man, woman and child in town. No wonder money is scarce." Probably there is money enough, however, as the banks and deposit companies are full, but people get in an economical humor occasionally, and while it lasts it will have to be endured.

Meanwhile good roses and violets are selling very well and the market is not to say glutted with anything, while prices are still quite high enough to enable the grower to eat roast beef whenever his appetite runs that way.

Mr. Robert Halliday is still confined to the house with illness.

Mr. A. J. Edmonds of the United States Nurseries took in the town on his way to Washington.

Mr. Hornicke, head gardener at Mr. Robt. Garrett's city conservatories, has quite a stock of orchid seedlings, the result of careful crossing; a recent visit showed his entire collection to be in splendid condition.

At the club meeting the final report of the show committee was very much to the liking of all. In spite of the fact that the expenses were $700 more than last year there was still several hundred dollars left after everything was paid.

A paper by Mr. McNab on use of commercial fertilizers was exceedingly interesting, as it was a summary of the writer's experience, and was very ably written. His rule for the quantity to be used is to calculate the number of feet in an acre and compare the quantity of soil in benches to that and use fertilizer accordingly. At the same time he would consider the needs of the plants upon which it was to be used.

Trade shows some improvement in demand, but supply of fine buds is rather short; otherwise the market is unchanged.

MACK.

SELECT
Chrysanthemums.

THE QUEEN and NIVEUS, best white.
MISS KATE BROWN, largest white, October sort.
TUXEDO, best amber yellow.
HARRY BALSLEY, best pink, very large.
BYNUM SCHITTGES, best crimson
MAY KRAFT, a beautiful incurved salmon; our own seedling.

Stock plants of above sterling sorts, 25 cts. each; $20.00 per 100. 25 at hundred rate.

A surplus of 20,000 Cuttings of 50 best sorts at $5.00 per 1000. Wholesale price list of bedding plants, roses, etc ready; also descriptive catalogue.

100,000 CANE STAKES, 6 to 8 ft. long, $3 per 1000. Cheapest and most durable material.

ADDRESS NANZ & NEUNER, Louisville, Ky.

Verbenas

SPECIAL OFFER.

	Per 100	Per 1000
Unsurpassed Mammoths, 2¼-inch pots	$3.00	$25.00
" " " rooted cuttings	1.25	10.00
Genera collection, named, " "	1.00	8.00
" " " 2¼-inch pots	2.50	20.00
H. P. Roses, dormant, strong	6 00	75.00
Tea " " "	6.00	50.00
Forcing " 3-inch pots, "	6.00	50.00

WOOD BROTHERS,
Fishkill, N. Y.

IN THE FRONT RANK!
NEW WHITE CHRYSANTHEMUM
"MUTUAL FRIEND"

It is sure to be a prize winner and a leading variety for '94.

FIRST PRIZE and CERTIFICATE of MERIT MASS. HORT. SOCIETY, '93.

Orders booked now for March delivery, 50c. each; $4.00 per dozen. At these prices all should try it. We know it will please. Send for descriptive circular.

MANN BROS., Randolph, Mass.

New Chrysanthemum, MRS. J. GEO. ILS,
A CALIFORNIA SEEDLING.

Flowers sent from San Francisco to the Chicago Show awarded a MEDAL.

A grand white, of remarkable substance, size and depth of flower. See Illustration in AMERICAN FLORIST of November 16th. The very vigorous habit, and our large stock of this novelty, enables us to assure the trade of good plants, and to guarantee safe arrival. To be sent out the 1st of March, 1894, at the following prices to the trade:

75 cents each; $7.50 per 12 plants; $14 per 25 plants; $25 per 50 plants; $40 per 100.

ORDERS BOOKED NOW BY

JOHN H. SIEVERS, 25 Post St., SAN FRANCISCO, CAL.


FANCY.


DAGGER.

EVERGREEN CUT FERNS

ESPECIALLY FOR FLORISTS' USE.

$1.25 PER THOUSAND FERNS.

IN LOTS OF 5000 AND UPWARDS, $1.00 PER 1000. Ferns furnished the year round. Special attention given to supplying the Wholesale Trade.

L. B. BRAGUE, Hinsdale, Mass.

NEW.

Our Trade Catalogue will contain a complete list of the new

CHRYSANTHEMUMS
—AND—
CARNATIONS

For 1894 as well as the best Standard sorts. Also the NEW ROSE MRS. W. C. WHITNEY, will be mailed January 15th. See it before placing your order.

NATHAN SMITH & SON,
167 W. Maumee St., ADRIAN, MICH.

ROOTED CUTTINGS.
Chrysanthemums AND Carnations.

Write for list and prices. Prices to suit the times.

Address J. G. BURROW, Fishkill, N. Y.

Galax Leaves.

You cannot afford to be without them if you sell Cut Flowers and Decorate. Especially for Christmas. Big money in them. I sold 300,000 in 3 months last winter. $2.00 per 1000 by express. Sample 100 sent by mail on receipt of 50c.

LINCOLN I. NEFF, Florist,
4010 Butler St., PITTSBURG, PA
AGENT FOR HARLAN P. KELSEY.

ROOTED CUTTINGS
GOOD ONES.

Verbenas, 23 varieties	90c. per 100;	$8.00 per 1000
Heliotrope, 7 varieties	per doz.	20 cts
Fuchsias, 12 varieties	"	20 cts.
Cigar Plant and Lopezia	"	20 cts.
Giant Alyssum and Marguerite Daisy	"	20 cts.
Manettia Vine, Mex. Primrose & Sultana	"	25 cts.
Red, White & Blue Plant (Cuphea Llavæ)	"	30 cts.

Chrysanthemums, 20c. Coleus, 12c. Postage 1c. a doz.

Send for catalogue. I. L PILLSBURY, Macomb, Ill.

Sphagnum Moss.

65c. per bale in car lots; 70c. per bale in less than car lots. F. o. b. Mather. Cash to accompany small orders; usual terms on large orders. Good sized bales and moss of good quality.

G. A. MARVIN, Mather, Wis.

Wild Smilax, Pines and Palmettos

FOR DECORATIONS
AT LOW FIGURES.

Low freight rates by steamer to New York, Boston, Philadelphia and Baltimore.

A. C. OELSCHIG,
SAVANNAH, GA.

H. BAYERSDORFER & CO.,
WHOLESALE
FLORISTS' SUPPLIES ONLY,
56 N. 4th Street,
PHILADELPHIA, PA.

Our new Catalogue is now out, free upon application.

MARSCHUETZ & CO.,
Florists' Supplies,
23 & 25 N. 4th St., PHILADELPHIA, PA.
Send for Catalogue.

HUNTINGTON SEED CO.
Florists' : Supplies,
66 E. WASHINGTON ST.,
INDIANAPOLIS, IND.

Standard Flower Pots, Dried Grasses, Fancy Baskets Metal Designs. Trade Catalogue mailed free.

Always mention the American Florist when writing to advertisers.

* * * "Of course, we could have this work "done here at the local printing shop, but I think "**if you do the work we will more "than get back the money,** as "there is something about the work "done at the Mount Pleasant Print= "ery that really attracts attention, "**and pulls in orders.**"

This extract from a letter just received is worth attention. If **YOUR** catalogue needs this "**something**" that "**pulls in orders,**" write about it to **J. HORACE McFARLAND CO., Harrisburg, Pa.**

Supplies of all Kinds, such as Immortelles, Cape Flowers, paper pressed Hartford and Maidenhair Ferns, Wheat Sheaves, Flower Baskets, Pot Holders, Plant Stands, Fern Dishes, etc., etc.; all quoted in our beautifully and richly illustrated new Trade List mailed free. Also

Metal Designs, the best winter cemetery decoration, in rich assortment of tasteful designs: Wreaths, Crosses, Anchors, Hearts, etc., in green or white foliage.

Cycas Leaves, (Sago Palm), natural prepared, equal to fresh cut in appearance, according to size at 40c., 45c., 50c., 60c. and 75c. each.

Flower Seeds in the best and choicest strains for florists' use. Our new 1894 Catalogue is ready and mailed; if it did not reach you, send for a copy. Address

August Rölker & Sons,
136 & 138 W. 24th St., P. O. Station E. **New York.**



Florists' Pins
Glass Heads, in Black or White.

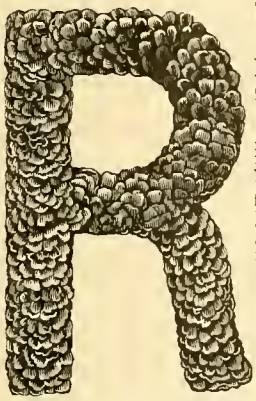
PRICES:

1,	1½,	2,	2½,	3,	3½,	4 inches,
50c,	75c,	$1.00,	$1.25,	$1.50,	$1.75,	$2.00 per 1000

For Sale by
August Rolker & Sons, New York.
Wm. Elliott & Sons, New York.
H. Bayersdorfer & Co., Philadelphia.
N. F. McCarthy & Co., Boston.
E. H. Hunt, Chicago.
J. C. Vaughan, Chicago.
Huntington Seed Co., Indianapolis, Ind.
W. Ellison, St. Louis.
E. W. Crook, San Francisco.
J. A. Simmers, Toronto, Ont.
Edw. Mullin, Kingston, Ont.

AUG. F. BRABANT, Manufacturer,
54 Warren Street, NEW YORK.
Mention American Florist.

Medal Awarded
at World's Columbian Exposition to
ERNST KAUFMANN & CO.,
113 N. 4th St., Philadelphia, Pa.
FOR
METALLIC DESIGNS, WHEAT SHEAVES, CELLULOID BASKETS AND POT COVERS, and all Florists' Supplies.
Mention American Florist.



W. C. KRICK'S
PATENT
Florists' Letters, Etc.
Highest Award wherever exhibited.

These Letters are made of the best immortelles, wired on wood or metal frames having holes drilled in them to insert toothpicks, by which to fasten them in the design. All infringements prosecuted.

2-inch Letters, $3 00 per 100.
Postage, 15c. per 100.

Before purchasing send for free sample and Catalogue and compare with any other letter in the market.

W. C. KRICK, 1287 Broadway, BROOKLYN, N. Y.
Agents:—J. C. VAUGHAN, Chicago, Ill.; H. BAYERSDORFER & Co., Phila., Pa.; N. STEFFENS, N. Y.; AUG. ROLKER & SONS, N. Y.; ED. S. SCHMID, Washington, D. C.; JAMES VICK'S SONS, Rochester N. Y.; T. W. WOOD & SONS, Richmond, Va.; J. A. SIMMERS, Toronto, Ont.

BOSTON FLORIST LETTER CO.,
13 Green Street, BOSTON, MASS.
Address all correspondence to 1 Music Hall Place.
Manufacture THE BEST LETTERS IN THE MARKET.
Sizes 1½-inch and 2-inch, $2.00 per 100. Patent fastener with each letter.
With orders for 500 letters we give away a nicely stained and varnished box. See cut in next week's American Florist.
Our letter is handled by all the wholesalers in Boston.
AGENTS: A. Rolker & Sons, New York; Marschuetz & Co., 25 N. 4th Street, Philadelphia, Pa.; F. E. McAllister, 22 Dey St., N. Y.; Ernst Kaufmann & Co., 113 N. 4th St., Philadelphia, Pa.; H. Bayersdorfer & Co., Philadelphia, Pa.; A. D. Perry & Co., 33 Warren St., Syracuse, N. Y.; A. C. Kendal, 115 Ontario St., Cleveland, O.; E. H. Hunt, 79 Lake St., Chicago; Wisconsin Flower Exchange, 131 Mason St., Milkwaukee, Wis.; H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.; T. W. Wood & Sons, 6th and Marshall Sts. Richmond, Va.; Jas. Vick's Sons, Rochester, N. Y.; Dan'l B. Long, Buffalo, N. Y.; C. A. Kuehn, St. Louis, Mo.; C. F. Huntington & Co., Indianapolis, Ind; Z. De Forest Ely & Co., 1024 Market St., Philadelphia, Pa; Portland Seed Co., 171 2nd St., Portland, Oregon.
J. A. Simmers, Toronto, Ont., Agent for Canada.

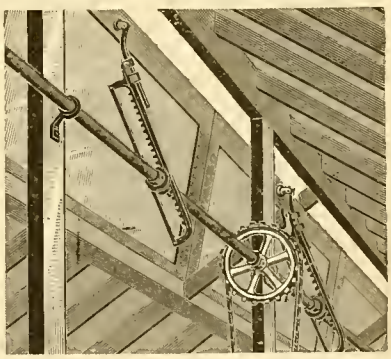
BOXES. BOXES. BOXES.
Three-Piece Wood Mailing Box.
The neatest and strongest box on the market. Send 15 cts. in stamps for sample nest and price list. I also make Cut Flower and Express Boxes.
W. E. SMITH,
Successor to SMITH & SMITH,
Hardin County. KENTON, OHIO.

FLORISTS' HOSE,
Made by E. W. Holt, member of the Society of American Florists.
Goodyear Rubber Store,
2 W. 14TH ST. NEW YORK.

When writing to any of the advertisers on this page please mention the American Florist.

SEE HERE
BROTHER
FLORIST!

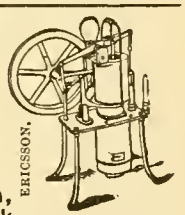
Aren't you tired going through your houses two or three times a day year after year and lifting your ventilating sash one at a time and propping them up with sticks or pots, with a chance of having sash blown off and broken glass to pay for? If you are



We have got just the thing you need, the **NEWEST** and **BEST** thing out. "The New Departure" for about half the cost of the old style. Send for Descriptive Catalogue to

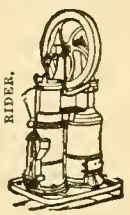
J. D. GARMODY, Evansville, Ind.

WATER
For Your GREEN HOUSE, ROSE HOUSE, NURSERY,
Conservatory, Lawn, House, Garden, Stock or any other purpose.
Send for Illustrated Catalogue OF THE
DE LAMATER-RIDER AND DE LAMATER-ERICSSON PUMPING ENGINE.



HOT-AIR PUMPING ENGINE.

Their operation is so simple and safe that a child can run them. They will pump water from shallow streams or any kind of well. They can be arranged for any kind of fuel.
Capacity 1,500 to 30,000 gallons of water a day, according to size.
The De Lamater Iron Works,
87 South Fifth Avenue,
NEW YORK, N. Y.



CUTS!



WOOD ENGRAVING,
PHOTO-ENGRAVING,
WAX ENGRAVING,
ZINC ETCHING,
HALF-TONE,
DESIGNING.

MANZ & CO.,
183 Monroe Street, CHICAGO. ENGRAVERS.

Send orders for . . .
CLEAR CYPRESS
Greenhouse Material
from bottom of gutter up.
Correspondence solicited. Estimates cheerfully furnished.
LYMAN FELHEIM, ERIE, PA.
Mention American Florist.

Toronto.

Business has got down very low again and there is comparatively nothing doing now, and not much prospect of more until Easter. Roses are plentiful and more than supply the demand; in consequence prices have taken a tumble. Other flowers have of course followed suit.

J. H. Dunlop's window is very attractive just now with great bunches of the finest roses.

In reply to "Subscriber" of Baltimore, Messrs. Manton Bros. say that their J. J. Harrison carnations are grown on a solid bed in light sandy yellow loam, night temperature from 45° to 50°; they were taken in from the field in September and have bloomed continuously ever since; comparatively few burst their calyx. They were propagated from stock obtained 6 years ago which has never been worked or forced hard. E.

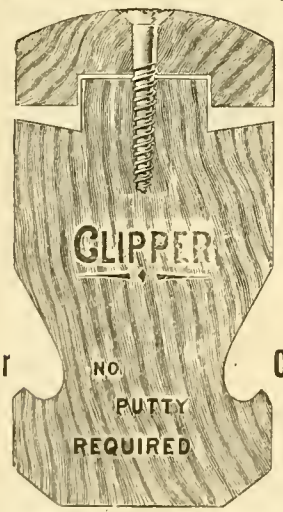
Cincinnati.

The annual meeting of the Cincinnati Florist Society was held at the society's rooms in the new floral market, Monday evening, January 8. The attendance was large and the meeting very enthusiastic. Ten new members were elected.

Our society now is an incorporated body and at this meeting directors were elected as follows: R. Witterstaetter, B. P. Critchell, Geo. Corbett, Fred Walz and R. J. Murphy. Immediately after the regular meeting adjourned a director's meeting was held and officers elected as follows: B. P. Critchell, president; E. G. Gillett, secretary; Geo. Corbett, treasurer. After mapping out rules and by-laws this meeting adjourned.

We now have the pleasure to announce that L. Kyrk & Co. have opened a new flower store, and that Huntsman and Hardesty have consolidated. We trust both new firms shall have a prosperous business. E. G. G.

LOCKLAND LUMBER CO.



Clear Cypress

MATERIAL FOR GREENHOUSES.

Send for Circulars and Testimonials.

Address LOCKLAND, O.

When writing to any of the advertisers on this page please mention the American Florist.



Do Your Grapes Rot?

Pears blight, crack or spot? Are your Apples, Plums, and Cherries imperfect? Powell's

COPPERDINE

Is a sure preventive. It is guaranteed to stop all Fungus Diseases; prevents Rust on Carnations and Black Spots on Roses.

For sale by all Seedsmen, 50c. a quart, $1.50 per gallon. Used largely diluted. Special prices in large quantities to Florists and Nurserymen. *Send for circular.* Powell's Mildew Mixture prevents Mildew on Flowers and Fruits, and Rust on Oats,

W. S. POWELL & CO., Baltimore, Md., U. S. A.

"Standard" Flower Pots.

As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address

The Whilldin Potterv Company,

BRANCH WAREHOUSES: 713, 715, 717 & 719 Wharton St., Philadelphia, Pa.
Randolph Ave. and Union St., Jersey City, N. J.
Jackson Ave. and Pearson St., Long Island City, L. I.

STANDARD FLOWER POTS

Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.

A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.

We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

Send for price list and samples and we know you will give us an order.

SYRACUSE POTTERY CO. OFFICE: 403 North Salina Street, SYRACUSE, N. Y.

STANDARD FLOWER POTS.

OLD RELIABLE MAKE OF

ELVERSON, SHERWOOD & BARKER.

Write for Catalogue and Price List.

PITTSBURGH CLAY MFG. CO. New Brighton, Pa.

Mention American Florist.

STANDARD FLOWER POTS

Our new **Pottery,** new **Machinery,** the very **best Clay** in the **Country,** and our new **Patent Kilns,** all combined, make the **best Standard Pot in the market.** Send for price list.

PARMENTER MF'G COMPANY,

GEORGE MESSINGER, Manager. East Brookfield, Mass.



Pat. 1882, '85, '86, '88, '90, '91.

FOR WATER, AIR, STEAM, ACIDS, OILS, LIQUORS, GAS, SUCTION,

And for any and every purpose for which a hose can be applied.

Sizes, ⅛-inch to 42 inches diameter.

The making, vending or use of any Serviceable Armored Wire Bound Hose not of our manufacture is an infringement on one or more of our Patents. The rights secured to us render each individual dealer or user responsible for such unlawful use with all the consequences thereof. For prices and discounts address WATERBURY RUBBER CO., Sole Mf'rs and Owners of all the *Sphincter Grip Armored Hose Patents,* 49 Warren Street, New York.

J. C. VAUGHAN, Agent, CHICAGO.

FLORAL DESIGNS

The Cut Flower Worker's Friend. Fine book of 160 pages. Send $3.50 for it, to

J. HORACE McFARLAND, Harrisburg, Pa.

Please mention the American Florist every time you write any of the advertisers on this page.

LITTLE'S ANTIPEST.

— A —

Valuable Discovery of the 19th Century.

SILVER MEDAL AWARDED

— BY THE —

CALIFORNIA STATE FAIR OF 1890.

This preparation is a sure destroyer of the **Scale, Wooly Aphis** and **Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure** and **Cheap.** No fruit grower or florist should be without it.

Send for Circulars and Price List.

R. W. CARMAN, General Agent,
291 AMITY STREET,
FLUSHING, Queens, Co., N. Y.

Increase Your Business

by fostering an interest in plants and flowers among the people in your vicinity. You can best do this by getting subscribers to

GARDENING . . .

which tells people how to get the most satisfaction out of their gardens, and stimulates them to enlarge and extend their gardening operations.

$1.00 A YEAR is the subscription price of this paper, which is issued twice a month, is handsomely and truthfully illustrated, is thoroughly practical, absolutely free from wind and gush and grinds no axes for anyone.

SPECIAL LOW RATE to florists who will act as agents. We want an agent in every city and town in America. Write for terms now to

THE GARDENING CO.
Monon Building, CHICAGO.

THE CHAMPION Automatic Ventilator.

The cheapest, easiest to operate, and by far the best machine in the market. Don't buy a Ventilator until you have seen my illustrated descriptive circular, which will be sent you free, giving prices, etc. Also **Champion Soil Pulverizer and Sifter.**

Address, **E. E. WOLF,**
Box 114. SPRINGFIELD, O.

Mention American Florist.

YOU CAN SAVE MONEY BY PURCHASING, AND GLASS BY USING

Hamilton's Patent Sash Lifter

The best thing of the kind ever invented for greenhouse use. Send for description and price list.

BAY STATE HARDWARE CO.,
272 Freeport Street, BOSTON, MASS.

D. H. ROBERTS,
159 & 161 South Fifth Ave., New York.
NATURAL GAS MADE GLASS,
for Rose Houses, Conservatories, etc., etc.

THE PERFECT DRAINAGE
BENCH TILE
For circulars, etc., address
W. P. WIGHT, Upland Greenhouses,
Send your business card. MADISON, N. J.

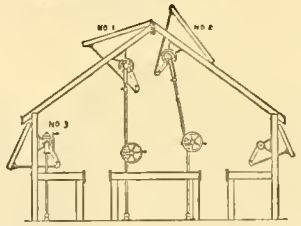
GLASS. ROCK BOTTOM PRICES Send for Estimate. Satisfaction Guaranteed.
REED GLASS CO.,
65 Warren St., and 46, 48 & 50 College Place,
New York City.

VICTORY! VICTORY! VICTORY!

The only Certificate of Merit awarded for ventilating apparatus at the St. Louis Convention was to the

POPULAR STANDARD VENTILATING MACHINE

The florist's friend in working and prices.



No repairs for 5 years. no chains to break as is the result with others.

Opens Sash uniform on 100 foot houses. A new device.

Send for Catalogue and Estimates.

E. HIPPARD, Youngstown, Ohio.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO.

NATURAL GAS MADE GLASS,

FOR GREENHOUSES.

Write for latest prices.

FRENCH GLASS For CONSERVATORIES, ROSE HOUSES, Etc. Etc.

VANHORNE, GRIFFEN & CO.,

Importers of PLATE and WINDOW GLASS. Manufacturers of BENT GLASS and FRENCH MIRRORS.

131-133-135-137 FRANKLIN STREET, NEW YORK.

Note—Imported Glass is used in the best grade of Greenhouse building

Mention American Florist.

KROESCHELL BROS.
IMPROVED
Greenhouse Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

Mention American Florist

EVANS' IMPROVED
CHALLENGE VENTILATING APPARATUS

Write for Illustrated Catalogue.

QUAKER CITY MACHINE WORKS, Richmond, Ind.



GREENHOUSE HEATING AND VENTILATING.

Superior Hot Water Boilers.

JOHN A. SCOLLAY,
74 & 76 Myrtle Ave., Brooklyn, N.Y.
☞ Send for Catalogue.

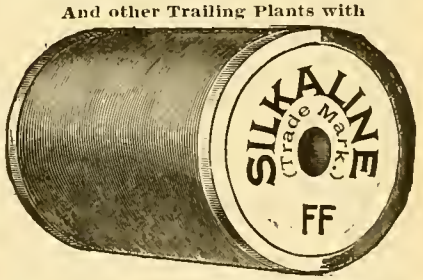
MAIL

LOCK THE DOOR BEFORE THE HORSE IS STOLEN.
DO IT NOW.

JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

STRING SMILAX

And other Trailing Plants with



JOHN C. MEYER & CO.,
13 Otis St., (off Summer), **BOSTON, MASS.**
For sale by all leading Florists' Supply Houses.

J. N. STRUCK & BRO.

Manufacturers of

• CYPRESS •
Greenhouse Material,

LOUISVILLE, KY.

GURNEY Hot-Water Heaters FOR Greenhouses.

Send for a copy of our book "How best to heat our houses."

GURNEY HOT-WATER HEATER CO.
163 FRANKLIN ST., BOSTON.

Branch Office: 59 Wabash Avenue, Chicago, Illinois. Selling Agencies: Johnson & Co., 71 John St., New York City. J. C. F. Trachsel, 246 Arch St., Philadelphia

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Index to Advertisers.

Abel C C & Co.....541 545
Adv. Rates, etc.....542
Allen C E.....546
Baller F A.....541
Barnard W W & Co.....545
Bayersdorfer H & Co..548
Bay State Hdw Co.....551
Boston Letter Co 549
Brabant Aug F.....549
Brague L B.....548
Brown R S & Sons.....541
Brown & Canfield.....540
Bunting Samuel J.....547
Burns & Raynor.....543
Burrow J G.....548
Carman R W.....551
Carmody J D.....549
Chitty H E.....547
Corbrey & McKellar...542
Dailledouze Bros.....547
Deamud J B & Co.....543
De Lamater Iron Wks.549
Dillon J L.....541
Dorner Fred & Son.....547
Dreer H A.....541
Elliott W H.....542
Ellison Wm.....542
Ely Z De Forest & Co..545
Felheim Lyman.....549
Felthousen J E.....545
Ferry D M & Co.....545
Fisher Peter & Co.....547
Forstermann I.....544
Gardening Co The.....551
Goodyear Rubber Store.....549
Gregory J J H & Son...545
Griffith N S.....544
Gurney Heater Co.....551
Hall Ass'n.....551
Hancock & Son.....546
Hart James.....543
Hart & Crouse.....552
Hartford H E.....542
Herb Peter.....547
Herold des Glaubens..544
Herr Albert M.....546
Hews A H & Co.....550
Hill E G & Co.....541
Hippard E.....551
Hitchings & Co.....552
Hooker H M Co.....551
Horan Edw C.....543
Horan Jas.....547
Hulsebosch Bros.....545
Hunt E H.....543
Hunt M A.....540 541
Hunter Frank D.....543
Huntington Seed Co...548
Jenninga E B.....541
Joosten C H.....547
Kaufmann Ernst & Co.549
Kennicott Bros Co.....543
Krick W C.....549
Kroeschell Bros 551
Kuehn C A.....542
Lake Geneva Floral Co547
La Roche & Stahl.....542
Lockland Lumber Co...550
Long Dan'l B.....542
Lonsdale Edwin.....546
Lord & Burnham Co...552
McCarthy N F & Co....543
McFarland J H.....550
McFarland J H Co.....549
MacBean A S.....541
Mann Bros.....548
Manz J & Co.....549
Marschuetz & Co.....548
Marvin G A.....548
May John N.....546
May L L & Co.....540
Meyer John C & Co ...551
Michel Plant & Bulb Co.....545
Millang Bros.....543
Moffatt G J.....545
Moninger Jno C.....552
Moulder Geo B.....544
Nanz & Neuner.....540 548
National Plant Co.....542
Neff L L.....548
Oelschig A C.....548
Ouwerkerk P.....546
Parmenter Mfg Co.....550
Pennock C J.....547
Pennock Sam'l S.....542
Pierson F R Co.....541
Pillsbury I L.....548
Pittsburg Clay Mfg Co.550
Powell W S & Co.....550
Quaker City Mach Co..551
Randall A L.....543
Reed Glass Co.....551
Reed & Keller.....542
Reinberg Bros.....543
Reinschneider Ernst..545
Renard Joseph.....547
Roberts D H.....551
Roehrs Theo.....543
Roemer Fred.....541
Rolker A & Sons.....549
Rupp John F.....546
Sander & Co.....544
Schneider Fred.....546
Scollay John A.....551
Sebire P & Sons.....541
Shelmire W R.....546
Sheridan W F.....543
Siebrecht & Wadley....544
Sievers John H.....548
Situations. wants.....540
Smith W E.....549
Smith Nathan & Son...548
Spooner Wm H.....540
Stemmler T W.....540
Streby S O.....546
Struck J N & Bro.....551
Sunderbruch H L.....542
Sunset Seed & Plant Co545
Sutherland Geo A.....542
Swayne Edward.....547
Swayne Wm.....547
Syracuse Pottery Co...550
Tricker Wm.....540
United States Nurs's..545
Van Horne Griffen & Co.....551
Vaughan J C.....544
Vick & Hill.....547
Waterbury Rubber Co 550
Weathered's Sons T W.552
Weeber & Don.....545
Welch Bros.....543
Whildin Pot Co.....550
Wight W P.....551
Wittbold Geo.ge.....546
Wolf E E.....551
Wood Bros.....548
Woodruff W B.....546
Young Thos Jr.....543
Zirngiebel D.....546

SUGAR MAPLES AND MAPLES IN WINTER is the title of a recently published monograph by Prof. Wm. Trelease, of the Missouri Botanic Garden. It is illustrated by sixteen plates, of which those showing the winter character of maples are specially interesting. It is an interesting contribution to silvan literature, particularly in light of the recent changes in varietal names of this genus.

CYPRESS GREEN HOUSE MATERIAL

CLEAR

CYPI

SASH

BARS

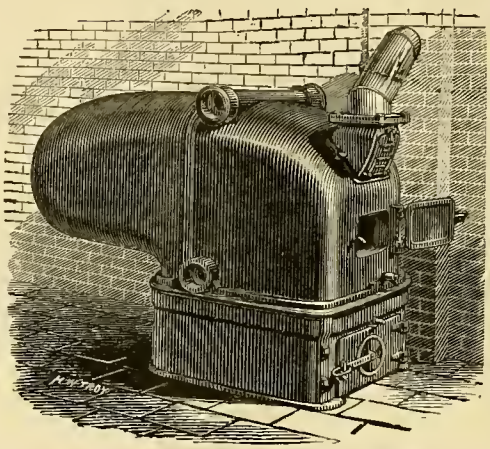
HOT BED VENTILATING SASH

JOHN C. McVINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

GreenhouseHH
Mass Agri Col
15 Dec 93

GREENHOUSE HEATING AND VENTILATING

Horticultural Architecture and Building.



HITCHINGS & CO.

Established 1844.

233 Mercer St., NEW YORK.

FIVE PATTERNS OF BOILERS.

NINETEEN SIZES.

Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc., of Iron Frame Construction, Erected complete, or the Structural Iron Work shipped ready for erection.

Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Top.

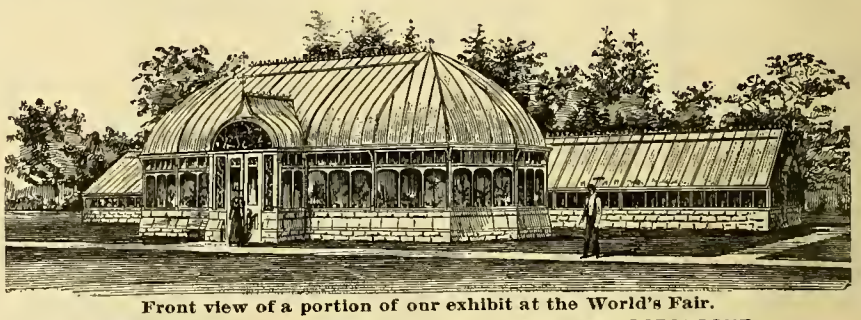
SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.

LORD & BURNHAM CO.

Horticultural Architects and Builders,

STEAM AND HOT WATER HEATING ENGINEERS.

☞ Plans and estimates furnished on application.



Front view of a portion of our exhibit at the World's Fair.

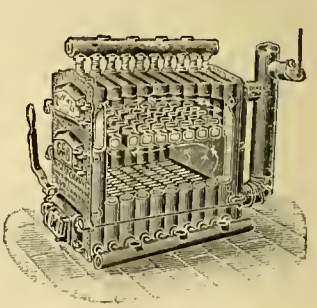
. . . SEND FOUR CENTS POSTAGE FOR ILLUSTRATED CATALOGUE. . . .

LORD & BURNHAM CO., Irvington-on-Hudson, N. Y.

SOLD ON THEIR MERITS AND NOT ON THEIR ANTIQUITY.

ROYAL HEATERS

THE RIGHT KIND of BOILER for a GREENHOUSE.



HART & CROUSE,

UTICA, N. Y.

Mention American Florist.

THOS. W. WEATHERED'S SONS,

INCORPORATED.

Horticultural Architects and Hot Water Engineers

Send for Catalogue, enclosing 4 cents in stamps.

No. 244 Canal St., NEW YORK CITY.

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. IX. *CHICAGO AND NEW YORK, JANUARY 25, 1894.* *No. 295*

THE AMERICAN FLORIST

Copyright 1894, by American Florist Company. Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY

322 Dearborn Street, Chicago.

Subscription, $1.00 a year. To Europe, $2.00.

Address all communications to

AMERICAN FLORIST COMPANY,

P. O. Drawer 164, CHICAGO.

Eastern Office: 67 Bromfield St., Boston.

SOCIETY OF AMERICAN FLORISTS.

J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. Tenth annual meeting at Atlantic City, N. J., August, 1894.

CONTENTS.

Chicago violet growers 553
The New York Florists' Club (illus) 554
Variety in spring stock 554
Carnations—Notes 556
Crotons and nepenthes 556
Asplenium nidus 556
Hollyhock diseases (illus) 556
Notes by the way 557
Asparagus plumosus 557
Seasonable hints 558
New York 558
Boston 558
Philadelphia 559
Chicago 559
St. Paul, Minn. 560
St. Louis 560
Toronto 561
Washington 561
Montreal 561
Ottawa, Ont. 561
Denver 561
News notes 561
Society of American Florists 564
Catalogues received 564
The seed trade 566
California mid-winter exposition 568
Assessing greenhouse property 568
Foreign notes 570
News notes 574

VIOLETS IN POTS.—Mr. Henry Schwarz of Cincinnati recently sending in a bunch of well colored violets says he has given them a fair trial in pots, but finds it does not answer, while he has fine success with them planted out in frames. The pot plants produce very fine flowers, but not enough of them.

PASADENA, CAL.—On January 1 we had our annual "Tournament of roses," and as usual it was a great event. The procession of decorated vehicles was a beautiful sight, the decorations being more elaborate than ever before. The event drew many strangers to the city.

HEMPSTEAD, N. Y.—Mr. H. Weston, formerly foreman for Harry Chaapel, of Williamsport, Pa., has started in business for himself here, near Greenfield Cemetery, having bought out the business of J. H. Bardain.

Chicago Violet Growers.

At Argyle Park Stollery Bros. are new beginners and have gone but lightly into violets; there is but one bench of them, but these are doing extremely well. There is not a diseased leaf on any of the plants, which look strong and vigorous, the blooms are large and of a fine dark color. The stools are well covered with buds.

R. J. Donovan, of Rosehill, is an old hand at the business and has generally succeeded in growing fine violets. Part of Mr. D.'s stock is looking very well, while a couple of benches are doing so poorly that nothing much can be expected from them. These two benches occupy the center space in one of the houses and have more light and air than any other. The stock that is planted in them, so Mr. D. reports, is the very best he had, and yet the result is a lot of the poorest stuff we ever saw on this place. The plants are diseased, but it is not the regular so-called violet disease. The trouble Mr. D. thinks lies at the root of the plant. The only reason he can assign is that the stock this year, owing to the extreme drought, was benched at a much earlier date than has been the habit in former years. These benches we are speaking of were the first planted. Immediately after taking in the plants the weather turned very hot for several days and the plants (as fine stock as was ever handled) began to suffer at once and have never recovered. The leaves seem to be rotting on the plants. We doubt if this be a specific disease at all, but are inclined to think that the plants suffered through insufficient root action. We found this same trouble at various other establishments, and in every case it can be traced to the same source, the trouble commencing immediately after the plants were moved into the houses. Aside from these two benches the plants are doing finely. The regular disease has been troublesome this fall as in former seasons, but is now well checked and the effect is not very noticeable. The plants are blooming well and quality of flowers is of a high grade.

Mr. Donovan called our attention to one bed (by the way, all the plants that are doing well here are grown in solid beds) about 100 feet long which was planted with what appeared to be two kinds and the line where one left off and the other commenced is very sharply defined. One set of plants looked much more vigorous than the other, foliage much darker and blooms larger and deeper in color. "This lot," remarked Mr. D., "was grown from rooted cuttings, while the rest of my plants are grown in the usual way by stool division." It would appear from this that cuttings would make the best stock, but let us see what other growers say on this subject.

Good violets have been grown around Bowmanville in former seasons, but this year the crop is a failure. Reinberg Bros. have five houses, but the plants have done very little up to the present time. Several houses look fairly healthy, but blooms are few. The rest are diseased. This stock suffered very much by the drought as well as from lifting in the fall.

Budlong's stock was entirely ruined by the dry season, and none of the stock was benched. J. T. Anthony's went the same way. His were housed but proved worthless and were thrown out to make room for sweet peas.

At Niles Center we find one or two establishments that look well in this line. J. Meyer, who has the reputation of producing violets second to none, comes to the front as usual with a couple of fine houses. His plants also suffered to a considerable extent, and in consequence the crop is somewhat later than in former years. Very few good flowers were picked previous to December 1. The disease appeared soon after the plants were taken in and in a short time much of the foliage was badly affected and had to be removed. At the present writing none of the bad effects are apparent. The plants look healthy and are flowering freely. The size of the blooms is remarkable, the finest ever produced here. Mr. Meyer runs his violet houses at a very low temperature, at night from 38° to 42°, never letting it rise above 45°, and in the day time not to exceed 60°. Mr. M. uses no fertilizer for feeding, but applies a mulch of well decayed manure and stable litter, more for the purpose of keeping the soil loose on top than for anything else.

F. Stielow is growing three houses this year, but the plants have done nothing as yet. Mr. S. reports his stock in fine shape at the time of benching. He is quite a Nimrod and generally takes his vacation in the fall at the opening of the game season. After benching his violets this year he started out on his annual hunting expedition. As a result he reports: The loss of a fine horse, value $175; a smashed up buggy (two wheels left uninjured), value $100; the crop of three violet houses for three months, amount of loss unknown. The horse and buggy Mr. S. took with him but failed to bring them back; the violet plants he left behind him but failed to find them on his return; at least there was such a small remnant left that it took a magnifying glass to find what remained of them. "Yes," remarked Mr. S., "the boys must have neglected the stock badly during my absence of three weeks. Nearly every leaf gone. They are just beginning to grow again and will flower probably by spring when the better part of the season is gone.

Do I think I could have saved my plants if I had given them my personal attention? Well, really I wouldn't like to say. Violets do act queer sometimes. If we find this year that we have discarded something of great value and apply it next season we may find it worthless."

George Harrer has one bench that is looking well. The yield is satisfactory and quality good.

Poehlman Bros., at Morton Grove, have three houses, each 12x150. The plants are not doing well. This can not be attributed so much to the disease as to other causes. We notice here the same rotting of the foliage as at Mr. Donovan's. Mr. P. pulled up several of the plants. There was not a healthy root, in fact apparently no new roots had been formed since the plants were benched.

Charles Northrop, of La Grange, is picking fine violets just now. We have not seen his plants, but Mr. N. reports his stock looking well, though the pick up to the present time is less than in former years. "Have you ever been troubled much with the disease?" we asked. "Well, no, I have had a few plants now and then which showed the effect of it, but slightly. I am inclined to think that the so-called violet disease is no more a specific disease than that of mildew is on the rose. Whenever the disease appeared with me I could trace it to a certain cause, the same as you can mildew. For instance, last summer in the field where my violet stock was planted I noticed two spots where the plants showed unmistakable signs of disease while all the rest were perfectly healthy. I kept an anxious watch over them, expecting it to spread, but the lines remained sharply defined, as at first noted. For quite a while I couldn't account for this, but finally I accidentally discovered what to my mind had caused the trouble. The plants were set out in rows running north and south; on the east side of the plants I planted a row of sweet peas which formed a hedge some 4 or 5 feet high; in this hedge there were two gaps several feet wide where the peas had died out; now it happened that one morning just about sunrise I was walking past this row of peas and I noticed that the rays of the sun were striking directly through the gaps in the row onto the plants which showed the disease; the leaves wet with dew were directly exposed to the rays of the sun, which at that season of the year is quite hot even at an early hour. I felt satisfied in my own mind that I had discovered the cause. These same plants are now doing as well as any on my place. I have tried rooted cuttings and stool division, and where the latter is practiced with care and the plants are set out properly I find very little difference. I have practiced both methods with practically the same result. I have experienced little trouble with my plants after benching them. I am very careful to take up the plants properly so as to cause the least disturbance to the roots. I regard this as one of the most vital points in growing violets. If you secure proper root action in your plants when removed into the house you will not be troubled with diseased plants unless they are grossly neglected."

Mr. Tonner of Galewood has made violets a specialty for a number of years and generally succeeds in growing good flowers. His plants this year came in bloom pretty early and blooms were quite abundant. Mr. T. was consequently much gratified with the result, as the demand for the flowers was brisk and prices good. But Mr. T. has a very bad boy employed at his place who applied a decoction of liquid manure from hen droppings, and the result may readily be guessed. Both foliage and roots were badly injured by the strong liquid, and it will take several weeks for the plants to recover.

The New York Florists' Club.

We present in this issue portraits of the officers of the New York Florists' Club for the year 1894. Unfortunately we were unable to procure photographs of two of the trustees, Messrs. W. H. Siebrecht and Fred A. Storm, but our readers are assured that these two gentlemen are both as good looking as those whose portraits are herewith presented.

The New York Club is one of the most noted and successful organizations of its kind in existence. It was organized in July 1887 and incorporated in February 1891. The preliminary and early meetings were held at the places of business of Wm. Elliott and W. S. Allen and then at Cooper Union. Afterwards the headquarters were at Goerwitz Hall on Third avenue, then the club room on West 27th street, and now at the Industrial Building on 43d street and Lexington avenue.

There were about a dozen or fifteen gentlemen at the initial meetings, and the whole membership during the first year was not over sixty. Now there are two hundred and eighty names on the roll and the treasury after encountering several reverses contains a balance of over $1,500 besides the sum of $1,000 still due from the Madison Square Garden Co. to the club. The presidents of the club have been J. N. May, John H. Taylor, Alex. Burns, James Dean, W. A. Manda and the present incumbent, P. O'Mara. There have been but two secretaries, W. S. Allen and John Young, and three gentlemen have served as treasurer, viz., Peter Henderson, A. D. Cowan and C. B. Weathered. The club has always had the support of the most honored and prominent men connected with horticulture in and around New York. Among the prominent members who have been taken away by death were Peter Henderson, John Henderson and Charles Anderson.

The exhibitions given under the auspices of the New York Florists' Club have always been on a very extensive scale, the premiums being the largest ever given for such purposes in the United States. Over $6,700 was distributed in prizes at one exhibition alone. The attendance at the first chrysanthemum show at Madison Square Garden was over 56,000 people in one week. The generosity and public spirit of the club is shown by the interest which they have taken in the encouragement of a love for horticulture in the minds of the children of the city, a most laudable undertaking in which they are associated with the Kindergarten and Potted Plant Association of New York. The sum of $400 was distributed in prizes to the children at the recent exhibition at the Industrial Building.

For such a young organization the New York Florists' Club has made a most enviable record and is now well equipped to take its place as one of the leading horticultural institutions of the country. Through the liberality of Mr. Mestaniz, the manager of the big Industrial Building, the club now enjoys the privilege of a club room without expense, and the prospects for notable floral exhibitions and general prosperity in the future are exceedingly bright.

Variety in Spring Stock.

To have sufficient variety in stock to supply the demand without unnecessarily multiplying species is the effort of many of our retail growers, and it really becomes a problem of some importance to those having only a limited area of glass in which to produce their spring stock, and at the same time to keep up their cut flower supply to meet the home trade.

Of course the only way to find out just what stock pays the best is to keep accurate records of the quantities raised and sold each season, this giving the information in a nut shell, and showing what plants may be safely dispensed with the following season in order to give space in which to try a few novelties. A certain space should be devoted to this latter purpose each season, for most of us know that the enthusiasm of the introducer of a new plant may sometimes lead to the warping of his judgment to a greater or less degree, and while the introducer may be unconscious of this fact yet it is safer to test the introduction for ourselves.

Really good novelties have been comparatively scarce during a few years past, the chief efforts in this direction having been among roses, carnations and chrysanthemums, and being rather in the improvement of existing types than in the production of new ones. But if new plants of remarkable quality have been few and far between, yet we have been enabled to find out more about the capabilities of some of the old favorites, as an instance of which the bedding out of crotons and acalyphas may be noted, as also sanchezias and Phyllanthus nivosus. It is admitted that these plants may not be universally successful for such purpose, but we do not know how much they will stand until we try them, and though a lake breeze or a "Washoe zephyr" may be more than they can endure, yet the fact remains that in many localities they are both beautiful and effective.

The tuberous begonias will naturally be included in the stock of every florist who can accommodate them this season, for the demand will doubtless continue to increase, even though they may not be an entire success in every locality. Begonia semperflorens Vernon is another useful member of this extensive family, and seems to flourish in quite exposed positions. This plant is as readily propagated by means of cuttings as are all the begonias, and has already proved to be quite an acquisition among bedding plants. It is none too soon to begin getting up a stock of these plants for the coming season, for thoughtful buyers will sooner pay a fair price for a strong and well established plant than to get a small, weak specimen for a low figure.

If crotons are to be tried this season it should be remembered that strong moist heat is required to grow them on rapidly, though they should be hardened off for a week or so in a cooler house before being used outdoors, else dissatisfaction may result. A night temperature of 70° to 75° with abundant moisture will furnish the most suitable conditions for the rapid development of these plants, and will enable one to secure strong stock in 4 or 5-inch pots in a reasonable time.

The acalyphas should certainly not be overlooked, A. musaica, A. marginata and A. Wilkesiana being the best for bed-



ding, and may be had from cuttings in almost as little time as coleus, providing a warm and light place is given them. When planted outdoors the acalyphas enjoy full sunshine, and will bear nearly as much pinching as a coleus, though like the latter the colors of the foliage are brighter when the shoots are not pinched or sheared too closely.

Sanchezia nobilis used to be looked upon as merely a warm house foliage plant, but this also has been proved useful for vases, veranda boxes and bedding, and while not needed in the same quantities as the acalyphas, yet may prove a useful addition to the stock.

Phyllanthus nivosus with its colored stems and mottled foliage may be profitably added to the stock of vase plants, and like the sanchezia is not difficult to increase by means of cuttings. In some localities there may also be some demand for bedding of very formal design, and it is well to be prepared for this also by having some stock of cotyledons (as our old friends the echeverias are now termed), some plants of Sempervivum arboreum var., S. calcareum and S. arachnoideum, also some Kleinia repens, and one or two of the low growing sedums. These with an abundance of alternanthera and some pyrethrum "Golden Feather" will provide material for a considerable variety of work of this character.

Some demand may also be found for small edging plants to be used around

beds of flowers or foliage, and among these Peristrophe angustifolia var., Acorus Japonicus var., and Festuca glauca should find a place, the peristrophe being readily produced from cuttings, while the other two are most easily secured by division. W. H. TAPLIN.



Carnation Notes.

It may be sort of a chestnut, and I may repeat some things I have said before, but I have had quite a number of inquiries in regard to rooting cuttings; what I know you are welcome to.

To be successful with cuttings you first want a good healthy cutting; never think of taking a cutting from any but perfectly healthy plants; the parent plant should be strong and vigorous from the lowermost leaf to the top of the plant. No plant that has the least sign of rust, spot or any other of the diseases common to carnations is fit to reproduce itself. Another important thing in reference to taking the cuttings is that you should never use them from plants that have been forced hard, either by heat or by extra stimulation in the way of liquid manures. These plants may be in the best of health and the cuttings would root up nicely and look well, but to keep them in real good working order they have to be continually watched and petted, and the high pressure must be kept up right along, and ten to one there is something going to burst before they are ready for the next season's bloom.

After you have a lot of good cuttings you will want a good propagating house or bench. I will describe my own and my methods, which can be modified to suit your house, as the fundamental principles are all that is necessary to successful propagation. My propagating houses are each one hundred feet long by ten feet wide, equal span, running north and south same as a house for growing plants and flowers. I may be wrong, but my theory has always been that if a cutting can be given plenty of sun after it has started making roots it will make a healthier plant than one that is grown in a north side house that never gets the direct rays of the sun.

The benches are in the middle of the house, and are six feet wide with a path on each side, thus getting away from the drip and dampness always found along the sides of houses. They are four feet from the bottom of the floor of the house and are boarded tight from the top down three feet (that is the sides). This leaves an opening of about one foot at the bottom and keeps the air underneath the benches constantly changed. Under each bench there are six 1-inch steam pipes, each pipe with a globe valve and a check so that we can run one, two or all of the pipe as we wish, keeping the temperature right all the time. These benches are made of an ordinary quality of pine lumber, and with the exception of placing the bottom boards a little closer together they are put up the same as if for plants. I never could see the possibility of growing good healthy cuttings on a bench with a water tight bottom. The sides of these benches are made of boards one foot wide, thus throwing the shading from five to six inches from the tops of the plants.

Everything being ready we put in about four inches of clean river sand; when we are ready to put in the cuttings it is made moist, nicely leveled off and patted down not too hard. To put in the cuttings we take an ordinary table knife to make the drills and then stick the cuttings in from one half to one inch apart according to the size of the cutting; after a row is put in the sand is pressed tightly against them to close it up and the next row made, leaving about two inches between the rows. After they are in we water them well once and that is all they get until they are rooted, and then we never water unless they are getting dry.

Every morning they are syringed excepting on cloudy days, and they are carefully shaded from the time the sun gets on the house until it gets off again in the evening; this is done until they begin to form roots, when the shading is left off a little longer at each end of the day until it can be left off entirely. Care must be exercised in syringing, as some varieties like Daybreak, Silver Spray and Golden Triumph will develop spot in the cutting bench if they are kept too wet. There is also a difference of from a week to ten days in the rooting of varieties. Slow rooters should be put at one end of the bench so that the others need not be covered waiting on them. For shading I use a cheap grade of muslin and put it on rollers six feet two inches long, these are thrown across the beds and rest on the sides as I have said before some five to six inches from the tops of the cuttings. It is a matter of about ten minutes for us to syringe and shade the two houses.

When the cuttings are first put in we keep the sand about 50° and the top temperature about 45° to 50°; after they are in a week this is increased to 55° to 60° for the sand and 50° to 55° for the top. A good all around rule for temperature is to keep the top temperature about the same as that in which the parent plants are growing, and the sand about five degrees higher.

Following these methods they should be rooted in from four to six weeks, and at least 90 per cent should root. I put in annually about five batches of 150,000 each, the first lot quite early; these root some 60 per cent. The last lot in the spring generally does not make over 50 per cent, but the intermediate three lots will run about 95 per cent rooted.

ALBERT M. HERR.

Crotons and Nepenthes.

EDITOR AM. FLORIST:—Will you kindly advise me through the FLORIST if crotons are benefitted by feeding with liquid manure at this time of year? The house they are in is well lighted and the night temperature is about 60°. Also I should feel obliged if you would give me some information in regard to coloring pitchers of nepenthes—should they be exposed as much to the light as possible, and when growing freely does it improve them to water with liquid manure? S. R.

If the crotons are old plants and are potbound they will be improved by a little extra feeding, but young plants may be potted on instead of giving manure water. A night temperature of 60° is not enough to give the best results with crotons, and an increase of from 5° to 10° would be an improvement in that particular.

At this season the nepenthes should have full light, though in summer some shading is required. When in full growth some weak manure water may be given if the plants are well established, but it is best to proceed with caution in this matter, while observing the general rules of giving plenty of pure water at the root, a moist atmosphere and thorough syringing with a minimum temperature of 70°.

W. H. T.

Asplenium Nidus.

EDITOR AM. FLORIST:—I have an old bird's nest fern and it doesn't seem to grow very well with me. Would you let me know through your paper some of the principal requirements needed to succeed with such a plant? It has a stem about a foot high; should this be covered with sphagnum, or should such ferns be potted down to the leaves?

BIRD'S NEST FERN.

The bird's nest fern (Asplenium Nidus) is a shade loving species and thrives in a temperature of about 60°. The soil best suited for this plant is a coarse and fibrous one largely composed of peat, and the plant should not be potted very firmly. Water should be given freely, but during the winter especially should be kept off the foliage. The covering of the stem with sphagnum is not absolutely essential, but may induce additional roots to appear and thus be some advantage. W. H. TAPLIN.

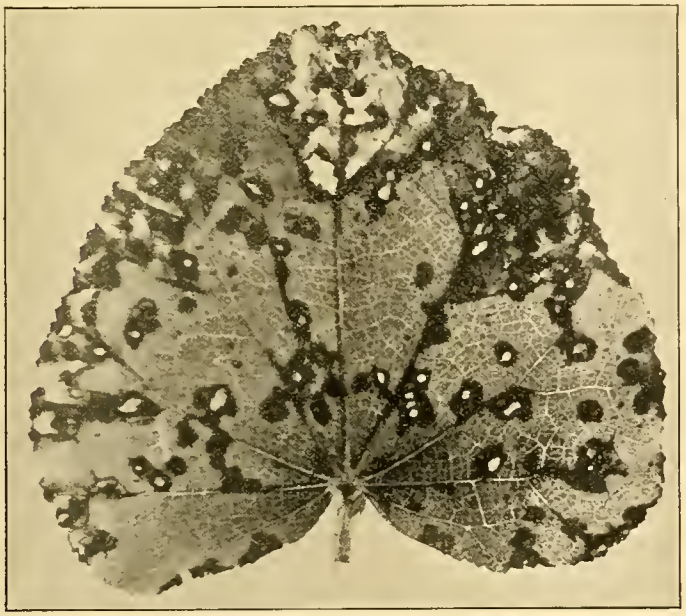
Hollyhock Diseases.

There are several fungous diseases of the hollyhock and between them all this old and popular perennial ornamental plant is a sorry sight in most places. One of the latest destructive comers is the hollyhock rust (Puccinia Malvacearum, Mont.), which during the past three years has spread with remarkable rapidity and fatality. This genuine rust, of the same family of fungi as that of the wheat and beet and carnation, causes the orange blotches upon the leaf and leaf stalk, and in the worst cases upon the whole stem.

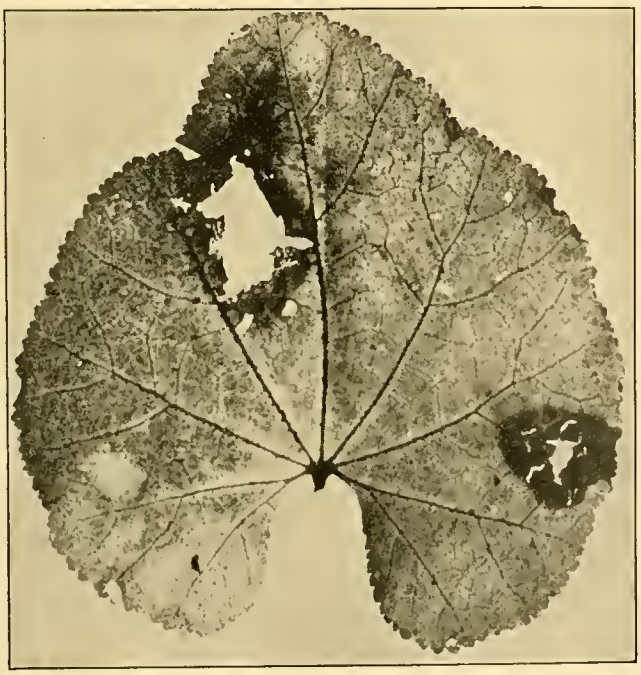
A fungus that is a good second to the rust is the hollyhock leaf spot (Cercospora Althæina, Sacc.) It is wide spread over the country and may be known by the peculiar dark angular spots which it causes in the affected leaves. These spots may be small and distinct at first, but soon they become confluent and the leaf breaks up in large patches.

Figure 1 is a solar print engraving of a badly attacked leaf and the light centers of the dark spots show where the leaf has become thin and lost all its original color, or the tissue has entirely disappeared. This trouble begins quite early in the life of the plant, for the writer has seen many hundreds of seedlings that were suffering severely from the leaf spot and were not worth anything. The spores of this fungus are long and slender like candles in shape and are produced in great numbers upon the surface of the spots.

A third form of fungous disease of the hollyhock is shown in figure 2. To the ordinary untrained eye this is at once seen to be widely different in its effect from the leaf spot shown in figure 1. This may be known as the hollyhock leaf blight (Phyllosticta Althæina, Sacc.) This parasite works more thoroughly than the leaf spot in that it spreads from a center of infection and destroys the leaf almost entirely as it goes. Thus there may be but one or two points where the



THE HOLLYHOCK LEAF SPOT. [FIG. 1.]



THE HOLLYHOCK LEAF BLIGHT [FIG. 2.]

germs found entrance, but from such points the disease works its way through the whole leaf. The engraving is of a leaf that has two such spots, one much larger than the other and having already produced a large and irregular hole.

REMEDIAL MEASURES.

There seems to be no sort of hollyhock that is exempt from these diseases, so that very little can be done in the line of selection of blight-proof sorts.

In the first place it is important to have seed that is strong and if possible from plants that are not affected with the rust and blights. If the seedlings become spotted or rusted they should be cast out, for young plants do not as a rule overcome these troubles. Some good can be done to old plants by spraying them with the Bordeaux mixture at least once a week during the growing season.

Unless something is done hollyhock growing will be a lost art in this country.

BYRON D. HALSTED.

Rutgers College.

Notes by the Way.

At Lansdowne, Pa., there are several important florists' establishments, one of the most extensive being that of Smith & Whitely. These gentlemen are now running the old Price place in addition to their own plant and seem to be doing a thriving business to judge from the appearance of both places. Roses, chrysanthemums and carnations for the Philadelphia market are their main products, although they also grow some ferns, smilax and one or two other minor stocks.

Mr. Smith, who kindly showed the writer around on the occasion of his visit, has the reputation of being one of the best growers in this vicinity, and there were evidences of the truth of this on every hand. One house of Beauties and Meteors looked the best of anything I have seen in my travels this season. Another house 100x20 devoted to Brunners looked well, and a house of Laings was extra fine.

Mr. Smith is a strong believer in front ventilation for hardening up the wood. The Price establishment is provided with thorough front ventilation, and also has slate benches with iron supports, and altogether is a very substantially put up range with modern improvements. In the Mermet house a fine lot of Bridesmaids were seen. Mr. Smith thinks a good deal of Bridesmaid and predicts for it a prominent place among commercial roses. In fact it already occupies quite a prominent position in this section. Gontier and Hoste occupy one half of another house with Wootton occupying the other half. Mr. Smith finds Wootton one of the most profitable varieties and has a larger space devoted to it this season than last year. Brides, Niphetos and Sunset make up the balance of the sorts grown here.

The chrysanthemums most largely grown are Minnie Wanamaker, Ivory, Madeira, Lincoln, H. E. Widener, A. J. Drexel, Jessica, J. G. Whilldin and Ada Spaulding.

In ferns Mr. Smith believes most in A. cuneatum for an all round sort, but he grows a quantity of the new A. Balli, which he considers a good thing and a great acquisition.

McGowan holds the fort here as the best white carnation; Hinze being grown in smaller quantity for a late crop. Edna Craig looms up great among the pinks and is as much of a favorite as ever.

Like most of our florists who have grown wealthy, this firm has a cinch in their real estate, which has greatly increased in value recently on account of a new railroad which is to run within about a quarter of a mile of their site in the near future. The Laird of Dumbiedykes dictum "be aye stickin' in a tree, Jock; it'll be growin' when you're sleepin'," is not "in it" for money making compared with a shrewd investment in real estate. When one can sit still and let some other fellow do the "stickin'" and then when the good time comes reach up and pluck the apple one begins to appreciate the blessings of "the land of the free and the home of the brave."

Phila. G. C. WATSON.

Asparagus Plumosus.

ED. AM. FLORIST:—In how many ways can Asparagus plumosus be propagated and what are they? F. L. BUTLER.

Danbury, Ct.

It can be done in three ways: by seed, division and layers. Seed can only be produced on old plants with very mature foliage, and then their setting is uncertain. They germinate and grow freely in a light soil. By division it can be done very successfully; one plant can be divided into about six and make plants of the original size with a year's growth. Layers are rather uncertain, some layers producing very fine plants, others none at

all. I don't think it has ever been successfully propagated by cuttings.

Brighton, Mass. W. H. ELLIOTT.

Seasonable Hints.

The first week of February is late enough to take off your last cuttings of zonal geraniums that were propagated in the fall. The cuttings, if potted into 2-inch pots firmly, will root quite as well as if put into the propagating bed for 3 or 4 weeks yet, and make better plants than those "struck" in the sand. And this gives the plants which have been topped plenty of time to break and make fine plants by the month of May. There is no particular care needed for the cuttings, only they should receive one good watering, and after that only water when they are quite on the dry side; bottom heat is not at all necessary; any ordinary bench where a night temperature of 50° is kept is the place.

I notice some beds of tulips that have been uncovered up to this date, possibly because of a very mild winter. This is just the winter when the bulbs will soon be raised to the surface through continual freezing and thawing. Cover them at once, if it has not been done, with a few inches of litter from the stable. This will prevent the beds from feeling the extremes of temperature.

As the season advances it is much less trouble and expense to force tulips and daffodils. A night temperature of 60° will now bring them in flower in about 20 days, and unless the house is very bright little shading is needed. I allude to such varieties as La Reine (white), Yellow Prince and Chrysolora (yellow), Vermilion Brilliant (scarlet), Joost Von Vondel (striped). Don't try to force any of the double varieties until the first of March. They are in no great demand and are only disappointing when forced too early. Von Sion now comes to perfection when given the above temperature.

Lily of the valley has forced splendidly with me from Christmas on with a sand temperature of 80° to 90° and a top temperature of 65° to 70°, but as we gradually approach their natural flowering time less heat is required, particularly at top, therefore the same place is found unsuitable. In a few weeks an ordinary propagating house where the sand is kept at 65° to 70° and the atmosphere at 50° to 55° will be found to give the best results, and have them at all times in such shape that you can water the roots without wetting the flowers. This lesson is taught us by the destruction to a bed of these sweet little flowers outside when we get a heavy rain on them while in flower.

If you managed your Lilium lancifolium as I suggested a few months ago you will find some of them making a growth of a few inches. Remove those that have made any growth to the light. But keep them at the coolest end of the house. You don't want to force them.

It is unlikely that any of us will have our Easter crops just in the same condition or in the same degree of earliness. I will remind you once more of the extremely early date on which Easter falls this year. My own observations among others in the trade and my own stock is that the main crop of Harrisii lilies will want pushing hard. If they are not showing bud by the first of February it will take a high temperature to get them in by the 25th of March. Spiræa will also want lots of pushing. Cytisus will in a cool house be just about right. Azaleas will also nearer hit the mark with little trouble than if Easter was three weeks later.

There is a beautiful shrub forced in moderate quantities this year which it would be well to make a note of. It is "Staphylea Colchica." It much resembles the white lilac, but is even more beautiful and its delicate odor is quite as acceptable. It is more easily forced than the lilac and can be had in flower without any trouble for Christmas. Plants of it and lilac put into heat on the same day were in flower two weeks before the lilac.

It is time now to put in your first crop of chrysanthemums. It's a long while yet before you will propagate your main crop, but you can't wait until then and the tops of these you now put in even with the third and fourth generation will make fine cuttings. The same bed that you would propagate carnations in is the place for the mums. WM. SCOTT.

Buffalo, January 22.

New York.

Up to within the past few days there was but little stirring in the cut flower trade; the latter half of the past week, however, has seen quite a little spurt. Roses especially have felt the impetus and there is a fair demand for those that are coming in, when they are of first quality. Many of the rose growers are "off crop" at present, and there have been two or three big balls and other society events, and these together with the dull weather have helped the situation, as flowers open but slowly at such a time. Prices have not advanced much if any and there is no great hustle for anything. The shipping trade is almost extinct apparently, and dealers have to depend entirely upon local demands.

Carnations are in full supply and do not move very rapidly. Violets are going fairly well; about $1.50 is the maximum price for the best. Tulips, hyacinths and Harrisii lilies are as plentiful as ever and can be bought at very low prices in quantity. Lilacs of very fine quality are being received from several growers.

It is hoped that the little trade revival which is being experienced will be more than temporary, as on account of Lent coming in so early this year the busy season will be but short at the best.

Confidence in the future is not lacking, however, on the part of many growers who are planning more or less additions and improvements in their glass structures during the coming season. Mr. W. A. Manda, who has severed his connection with the Pitcher & Manda company, has now in course of erection at South Orange a range of six houses which will be ready in February and which are only a beginning of what is intended to be a very extensive establishment. The construction is being done by Thos. W. Weathered's Sons, and several novel improvements are being introduced. Mr. Manda's intentions are to do a general business in seeds, bulbs and plants, both hardy and tender, giving especial attention to the testing and introducing of novelties which give promise of being valuable. Mr. Manda is personally one of the most popular men in the trade in this country. His high ideals and ambition are well known and he will no doubt carry with him in his new venture the good wishes of every florist and gardener. With his experience, youth and determination his chances of success are certainly of the best.

The January meeting of the Florists' Club was but slimly attended, the members evidently regarding the dinner of two nights previous a good and sufficient excuse for absence at this time. The discussions were mostly informal and covered a number of subjects of more or less interest. An invitation from Mr. W. Bayard Cutting for the club to visit him early in June, during the blooming time of the rhododendrons, was received and accepted with thanks.

Mr. Chas. Zeller, of Flatbush, has been called upon to bear a severe affliction in the loss of his wife who died suddenly on Thursday, January 11. Mrs. Zeller was a lady highly esteemed by neighbors and friends and much sorrow is expressed over the sad event.

The railroad accident on the Lackawanna Railroad last Monday demoralized the flower market in some localities for the time being, as the roses from some of the large New Jersey growers were aboard that train and consequently did not arrive until very late, and some did not arrive at all.

Early on the morning of January 13 the extensive range of greenhouses of Thos. J. Slaughter, at Madison, N. J., was damaged by fire caused by a defect in the smoke pipe. About one thousand running feet of glass was destroyed.

Boston.

With the exception of fine roses there are plenty of flowers in this market. White flowers are a little too plenty in fact. If the demand was what it should be for midwinter there would be a decided dearth of roses; as it is they sell well if good. Harrisii lilies are overstocked, so also are freesias and white carnations.

On Saturday, January 20, there was a most beautiful display of rare orchids at Horticultural Hall, brought by Mr. Wm. Robinson, gardener to Mrs. F. L. Ames. A magnificent plant of Lælia anceps Sanderiana was the center of attraction. It bore nineteen spikes of pure white blossoms, averaging five blooms to a spike. Three of Mr. Robinson's special pets, hybrid masdevallias, which he has named Henrietta, Mary Ames and Rebecca, were also among the gems admired by the orchid lovers. A certificate of merit was awarded for each of these, as well as for the lælia, and in addition a silver medal to Mr. Robinson personally for success in raising hybrid masdevallias. Certificates of merit were also awarded for cut blooms of a new hybrid selenipedium named Helenæ and the beautiful hybrid Lælia Mossiæ Digbyana. Chas. Stour received a certificate of merit for a hybrid cypripedium. Jackson Dawson showed a fine plant of Dendrobium nobile grown naturally on a piece of cocoanut fibre, and L. H. Foster a vase of good Daybreak carnations.

It was interesting and almost amusing, after Mr. Lonsdale had delivered his essay on general horticultural subjects at the recent meeting of the Gardeners' and Florists' Club, to note how quickly the discussion and interest crystalized on carnation matters. And much valuable information on this subject was elicited by the questions that were propounded. For instance, Mr. Lonsdale is of the opinion that bursting of the calyx is due largely to cultural conditions rather than to varietal characteristics. He had noticed that when plants are forced along for Christmas or other special occasions bursting of the calyx is very common, but that the trouble disappears with the reduction of the temperature. Regarding disbudding he said that stouter stems and flowers a trifle larger are obtained

by this practice. Disbudding is only a recent introduction into carnation culture and its full value is not yet known. It certainly does not make as much difference in the resulting blooms as is the case with chrysanthemums. If disbudding is done the sooner it is done the better.

The matter of prices was also freely discussed and it seemed to be the general opinion that with carnations of better quality there is no good reason why prices obtained might not be higher in the future than ever before. Mr. Lonsdale advised that the best way to get big prices for new or specially fine varieties is to ask big prices. The cutting of long stems and foliage will have a tendency to weaken plants and it may yet be found necessary to grow separate houses of plants for propagating purposes only. With proper handling most varieties can probably be kept in good shape for an indefinite period. Speaking of future efforts in the production of new varieties he said that Malmaison would be found to be worthless as a parent for American varieties. The proper course is to breed from successful varieties, first making up your mind as to what is wanted and then breeding towards it. As to the future development of the carnation he ventured the opinion that at the present rate of improvement we shall yet have carnations as symmetrically formed as the camellia is today.

Wm. Nicholson of Framingham says that in his experience with carnations he has never known Wm. Scott, Nicholson, Ada Byron, Hector or Mrs. Fisher to take rust. He has a batch of Golden Triumph which is loaded with rust, in the center of which he has set a plant of Nicholson, but up to the present time the plant is perfectly clean. Hector, Scott and Nicholson all are in fine condition with him. Among the best carnations coming to Boston are Hectors with stems fully two feet long which Welch Bros. are receiving from E. G. Bride of Woburn.

Kidder Bros. of Lincoln are still sending in fine blooms of chrysanthemum Miss Minnie Wanamaker to this city; and they look just about as crisp and jaunty as if it were November instead of January.

James Delay had his plants and show cases badly wet down in his store on Boylston street on January 14 by the bursting of a water pipe on the top floor of the building.

The greenhouse of R. M. Barnard at Everett was damaged by fire on the morning of January 15 and fine plants amounting in value to several hundred dollars were ruined.

Geo. A. Sutherland has introduced electric lights all through his wholesale establishment on Bromfield street.

The wife of C. Thompson Adams, of West Medway, died January 20.

Philadelphia.

The active members of the Penna. Horticultural Society are in much the same condition on the spring exhibition question as that famous army of the brave old Duke of York, for sometimes they are up and say "Well, we will try it again," and at the next meeting they will be down and say "No, it won't pay, we can't afford it." At the last meeting of the committee called to consider the matter it was decided to hold a spring exhibition and a schedule was partially prepared. But at the regular meeting of the society held last Tuesday evening all was changed. Now nearly everybody is at the bottom of the hill and there is to be no show. It seems to us that this conclusion is a great mistake. Here is a society composed on the one part of active working horticulturists who are always willing to put their shoulders to the wheel and push all together as is evidenced by the successful exhibitions of the society in the past. Another valuable adjunct is its large membership, composed of the best people of the city and neighborhood; many of them have extensive private greenhouses and their best plants and flowers are standard features of the shows; their annual membership fees are also a great help to the society. In addition there is the property left to the society through the generosity of Mr. Schaffer and his sister, which has grown to be worth at least $300,000, and finally over $30,000 now in the hands of the trustees. With all this wealth of energy, with all this clientage of wealthy and distinguished people, and with all this magnificent Schaffer endowment and money in the hands of the trustees the management of the society feel so poor that they are afraid to risk holding an exhibition that may cost them from one thousand to fifteen hundred dollars over the receipts.

The society should hold an exhibition in the spring as well as in the fall. It could be made one of the finest of the year. Magnificent azaleas should be grown especially for this occasion. The society should buy up or import perfect large specimens and pay some one to bring them in from year to year. Fine genistas and acacias would also make grand decorative plants. Such stock as this, that does not pay commercial florists to handle, should be provided for by the society and form a groundwork, to which could be added other choice flowering plants and artistic effects with plants and cut flowers, which a liberal and well arranged premium list would be sure to bring out. Such an exhibition would no doubt pay its expenses by the increased patronage, and if once established would be looked forward to from year to year by flower lovers, as the small boy looks for the circus.

There has been a better tone to business the past week, good stock of all kinds moving lively. The quality of many flowers is, however, poor. Particularly is this the case with carnations. Wilder seems to be no size at all; whether this is by comparison with the newer varieties or whether it is degenerating seems hard to say; it also seems to burst very badly and in many cases it is streaked with lighter pink or grayish white. Roses have been very much off color, but are getting a little better. Some growers say that dull weather affects the stems as well as the color, as a few days of continuous sunshine braces the stems up wonderfully.

Prices remain much the same as last week, there being very little difference. Job lots of poor carnations with a sprinkling of good ones among them sold the past week for $6 per thousand, and were to be seen on the street soon after for from 12 to 15 cents a dozen. Double daffodils are getting plentiful, but the price does not get below 6. Tulips are about in small quantities, but not yet up to the mark as to quality; they sell for from 4 to 5. Cattleyas are down; 50 cents each has been the price for these orchids from their introduction as a commercial flower in this market until the present time, and some growers even now ask the same, but since $40 is quoted it will likely be the price for a while at least. Edwin Lonsdale has a cattleya which has produced flowers with footstalk and stems twelve inches long with a width of flower seven inches in diameter, a remarkable flower. Orchids are gradually gaining ground, and it will not be many years before they will form a part of every florist's stock. Brunners are getting very scarce, the early crops being almost cut out. Heacock has a house just coming in, and Anderson will have another in a week or so. Burton is sending in some good Laings. Beauties and Belles are also scarce and the stock about is only fair.

H. F. Michell, the seedsman, is putting in a new front. Business he says has been very good and he feels much encouraged over the prospect for spring trade.

Robert Scott & Son have had great success with their mushroom house this season, cutting some days as much as one thousand pounds out of the house; these were all sold at prices ranging from 35 to 75 cents per pound. Mushrooms are now selling in this market at from 40 to 50 cents per pound, hot house tomatoes 25 cents per pound for good stock.

William Patterson, Robert Craig's father-in-law, died on the 15th inst., aged 70 years.

The bowling match between the teams selected by John Walker and John Crawford resulted in a victory for the Walker faction by some 50 pins. K.

Chicago.

Mr. H. Izawa, who was in charge of the Japanese horticultural exhibit at the World's Fair, left January 19 for his home in Japan. Mr. Izawa made many friends during his stay here and all will be glad to learn that he will probably return to America two years hence. He took a deep interest in the work of the Florist Club while here, and says he will attempt the formation of a similar organization in Tokio.

Business continues extremely quiet; large decorations are literally unknown, the floral arrangements at most social affairs being extremely small. This week the real estate banquet at the Auditorium called for some little work in this line; instead of the diners being at one or more large tables the tables were small, seating six or eight, and were decorated merely with vases or bowls of flowers.

Stock in some lines is rather scarce at present, particularly roses of first quality. Good Beauties, which average $3 to $4 a dozen, are scarce, a large proportion of the flowers now coming in being short stemmed and frequently malformed, rarely going above $1.50 a dozen. Brides, Mermets, La France and Wootton are worth $4 to $5 a hundred, and there has been an increase in the demand for light colored roses recently, owing perhaps to extra funeral work. Around the holidays red roses had preference, but now the case is reversed. Meteors, however, still hold their own and are worth $7 to $10. Perles, Niphetos and other small roses are worth $2 to $3. Carnations, without being extra plentiful, are still well able to meet the demand; they run from $1 to $1.50, with fancies such as Daybreak and Wm. Scott at $2. Portia is the only scarlet seen in any quantity, though a few Garfields are coming in; they are preferred to Portia on account of size.

Bulb stuff moves very slowly as a rule. Romans are still overloading the market, and there is plenty of paper white, which sells a shade better than Romans, but still very slowly. The demand for valley is even, but not extra good. Tulips are more plentiful and average $4 for yellow

and white; red does not sell. Tulips seem to be bought more for decorating the florist's window than anything else. Double daffodils are going at $4 to $6; there is not an extra demand for them, and a good many poor flowers. Harrisii is still plentiful, and a good many flowers of poor substance are noted; they run from $5 to $8. Callas are not selling very well, and a good many appear to have unusually short stems.

Violets hold their popularity and range from $1 to $2; $1.50 is a fair average. Smilax appears to be going a little better than it did. Complaints of dull business are general, both shipping and local trade suffering alike.

St. Paul, Minn.

I have perused with pleasure the communication from Aug. S. S. in your issue of December 7. It is needless to add that our florist friends recognized the writer of the article without looking for his name at the bottom.

His expose of my misrepresentation is very pleasing indeed. With an apology to the editor for encroaching on his valuable space, I wish to reply to some of the "exceptions" taken. If Aug. S. S. will give the names of the "*many* florists here as well as in Minneapolis who have been stretching their imagination" in the endeavor to locate me I will cheerfully comply with THEIR wishes and make myself known. I will certainly appreciate the "needed information" which they are so "anxious" to impart.

I have not at any time intended to give Minneapolis news and do not understand why any florist there should take exception to my St. Paul news.

Passing over the first item of October 19, to which an "exception" is taken and to which I will refer later, I have this to say in regard to the second exception noted by Aug. S. S. While I am aware that there were as many as fifteen so-called greenhouses in the city ten years ago the most of them were only poor apologies for such and would scarcely be recognized as greenhouses by the trade to-day. There may not be an establishment containing as much glass as I mentioned, as I merely made an estimate, which I presume Aug. S. S. did. Perhaps, however, he has measured them. Be that as it may, the point which I intended to make was this: That there is a much larger area of glass now in proportion to the population than there was then. I venture to say there is ten times the area devoted to greenhouses now that there was ten years ago, while the annual production may even be larger in proportion. Houses are constructed and equipped much better now than then and any one at all conversant with the business must know of the enormous increase in the business in the past ten years.

The leading concerns are "taxed to their utmost." At certain seasons I venture to say that even Aug. S. S. would wish for more room. At the same time Aug. S. S. has been in the business long enough to know that an establishment may be taxed to its utmost and still have surpluses in certain lines at certain seasons. There isn't a reputable greenhouse establishment in the country I venture to say but that has this same experience. If Aug. S. S. or any other florist has acquired the art of growing just enough and no more for the demands made upon him in each particular line he can be classed as an expert and a secr.

If "we would all be better off if there was a third less glass" why is it that some of our brethren are continually sending to Chicago and other places for flowers that can not be obtained here? And why, pray tell me, should our leading growers—Hansen, Lemke and May & Co.—increase the number of their houses every year or two if there is no demand to justify them in doing so? Some florists may have too much glass for their trade, but that is no reason for their blaming their more prosperous neighbors. In my opinion the demand in this city has always kept a little ahead of the supply.

Now the writer would never have mentioned that "mum" show "committee" if he had thought any one would take it seriously. Does Aug. S. S. remember the last committee and their attempts at holding a "mum" show? It turned out very *mum* indeed and has remained very *mum* ever since.

My item of November 2, to which attention is called, is so "misrepresenting" that we can not pass it by. If those cheap roses were obtained in St. Paul what a bitter dose it must have been for our Minneapolis brethren to swallow. And how lamentable my ignorance when I might have obtained the "needed information" by asking the Minneapolis florists or Aug. S. S. where the roses were obtained.

If "all" the Minneapolis florists wish to be excused from following my advice in the construction of their greenhouses they have my consent. I presume the old adage of the fox and the grapes will apply in their case, though I should like to hear from *them* before passing judgment.

Those in St. Paul who take exception to the statement that "mums" were not in greater demand than roses for the charity ball must be those who had plenty of roses and few mums. But of course trade varies with different stores, and while one may report good sales in one line another's trade may be quite the reverse.

Regarding those plants sold by the department store. They were advertised extensively and the crowd went early to buy. The plants were soon all sold and disappointed purchasers went to the nearest flower stores (which didn't happen to be Aug. S. S.'s) and purchased plants rather than to be disappointed. I don't think a single florist cut prices but they sold the plants just the same.

We are just as confident as ever that Minnesota roses beat the world. By this we do not mean that they can be grown as cheaply as further south. No doubt it costs from 50 to 75 per cent more to grow them here than in warmer latitudes, but the color, form and fragrance are Minnesota's own, and with the same care and treatment I believe will excel those of eastern or other growers. Of course every florist can not grow roses. I do not pretend to say that St. Paul has any expert rose growers, but the roses speak for themselves, and if Aug. S. S. doesn't think so he had better take a peep about town in some of the best rose grower's houses.

Now to conclude let us set aside all prejudices and look at this department store business squarely in the light. No one would like to see them driven out of the business of selling flowers more than the writer. But how, pray tell me, can you do it? If we refuse to sell them here they will go to Chicago, Milwaukee and other eastern cities and our own flowers will rot on the dump heap. We should make the most of a situation which we can not destroy. What is true of the floral business is true of the drug, the shoe, the clothing, the hardware, the jewelry and even of the grocery business. These same department stores cut into all of these lines more or less and local jobbers are compelled to sell them or *lose* that much trade.

It isn't a matter that can be regulated by combinations or boycotts. If they don't obtain the flowers here they *can* and *will* elsewhere. Flowers are sold by such stores chiefly because they make the stores bright and inviting. They all admit there is "no money in flowers." Sooner or later this "fad" will run its course and the flower business resume its natural channels. People will have become educated to like flowers and in the end the florists will be the gainers, not losers.

Minneapolis florists have suffered more than St. Paul from this class of trade. But competition is really the life of trade and glass block prices can not always prevail. Besides the department stores do not affect the regular bon ton trade. It cuts more heavily into the trade of the common people, which at best is fickle and not to be depended on. FELIX.

[The above was received soon after the notes by Aug. S. S. were published, but owing to pressure on our columns this is first opportunity to give it space.—ED.]

St. Louis.

Trade for the past week has been rather dull. There is but little stock coming in, however, which is fortunate. Really good stock is bringing a fair price, while poor stock is hard to get rid of at all. St. Louis, like all large cities, has at all times a market for first-class stock. Anyone growing such and shipping regularly can get as good returns here as anywhere. If, however, good stock cannot be placed on the market it is the fault of the grower and not of the market that the sales are not satisfactory. The above I think will hold true most anywhere and simply emphasizes the old saying of "Plenty of room at the top."

Von Sions and Dutch hyacinths have made their appearance in this market in limited quantities. The former sell at from 3 to 5 and the latter at 8. The demand for carnations has slackened up and they are rather slow sale at from $1 to $1.50 per hundred; a few, however, that are above the average go at a higher figure.

The last meeting in the second series of games arranged for the bowling teams of the club occurred on the 17th. Team number 3 started out in a vain endeavor to overcome the lead number 1 had piled up; they fell by the wayside, however, losing three straight games by 184, 157 and 27 pins. This allows team number 1 to retain first place, team number 2 advances to second and team number 3 drops to third position. As in the first series number 1 has been fortunate in having the attendance of all its members at its contests, while number 2 and 3 have had on several occasions to accept scores of 100 pins in place of members. As three games are rolled each meeting, the absence of a member costs his team anywhere from 75 to 250 pins, and in evenly matched teams this is more than anyone can stand.

Comparing the totals of the first and second series, number 1 gains 7 pins, number 2 loses 96 and number 3 loses 560 pins. The losses are accounted for by absentees, as the actual rolling has improved. The medal for highest score goes from Will Young to C. Beyer, who

is lucky man with a score of 269. The medal for the highest average stays in the possession of C. A. Kuehn, who in twelve games has an average of 205; this is the second time Mr. Kuehn has been skillful enough to win this trophy, and the next time it will become his personal property. In practice the other day he rolled 18 strikes in succession and the spectators were convinced that there was a groove in the alley until they tried to find it.

Mr. Schuerman is building a greenhouse on Grand avenue for the growing and keeping of plants he uses in his trade. Mr. Alex Waldbart is recovering from the attack of sickness he has passed through and his numerous friends will be pleased to hear of his having been out several times lately. Mr. Geo. Waldbart has during the past week opened his pretty and attractive little greenhouse and store on Grand avenue and is well located to do a first-class business.

There has been considerable delay in forwarding the photographs taken of the S. A. F. while in session here, but they should reach all who have ordered them by the end of next week. Anyone not receiving their copy by that time can have the matter looked into by addressing a postal to Robert F. Tesson, West Forest Park. R. F. T.

Toronto.

The weather continues mild and dull, altogether unlike the typical Canadian winter. Trade is also very, very dull and at the meeting of the G. and F. Association the other night every allusion to it brought forth ironical smiles and jeers. One member suggested that the city scavengers be asked to bring down a report of the cut flower trade at the next meeting. However, on reading the papers about the hard times elsewhere, it is I suppose only human nature to feel consoled by the fact that we are no worse off than our neighbors.

Mr. A. Gilchrist's place at Toronto Junction, about five miles from the city (but connected by electric cars) was visited for the first time by your correspondent the other day. Mr. G. goes in largely for outdoor herbaceous "stuff," and he is quite an enthusiast in that line. Of course this kind of "stuff" is "off color" just now, but as there was no snow on the ground one could see the large extent of land devoted to it. At the back of the place was about an acre of as fine spruce from 2 to 4 feet high as could be seen, also a splendid lot of Pinus Austriaca. Joining the dwelling house are three greenhouses; one was devoted entirely to carnations, the middle bench all Daybreaks in fine condition, the color especially good. In another house was a lot of pretty bushy cytisus in various sizes, very healthy looking stock. Mr. G. makes a specialty of ferns and he has a large stock of them in great variety and in all stages of growth. A bench of two year seedling palms of various sorts looked very thrifty and flourishing. Another house was full of general florist's stock, a batch of Harrisii lilies looking especially well. In the violet house I saw Lady Campbell for the first time in quantity and am bound to say I did not think much of it, though Mr. G. seemed to be of opinion that it would be useful.

The annual meeting of the Toronto Electoral District Society took place on Wednesday last and the G. and F. Association succeeded in getting another of its members on the board of directors, Mr. S. E. Briggs of the Steele, Briggs, Marcon Seed Co. This is the society that holds the flower show here in July and is in receipt of a government grant. It would take too much space to tell all the ins and outs of this society in connection with the trade, but it is sufficient to say that the above is a little bit of a triumph for the association.

The annual dinner of the association will take place on Wednesday, the 31st inst. at Webb's dining rooms. I need not say that any of the brethren on the "other side" who can make it convenient to drop in about 8 o'clock on that evening will be heartily welcomed. E.

Washington.

The committee having the S. A. F. charter matter in charge have been pushing it all they possibly could, but owing to the present temper of the House they find it impossible to get the matter through in time for the S. A. F. Executive Committee meeting, as had been hoped. Chairman Hatch of the committee on agriculture has reported the bill to the House this session and had it again referred to his committee. Mr. Durfee has arranged to have the bill acted upon at once in the Senate when sent over from the House, and there is little doubt that the charter will be granted long before the next annual meeting of the society in August.

The decorations at the luncheon given by the wife of Vice-President Stevenson in honor of Mrs. Cleveland were all in green and white. The parlors were decorated with palms and ferns, as was also the hallway leading from the parlor to the dining room. Scattered through the plants in the hallway appeared many electric bulbs, producing a brilliant effect. The centerpiece was an oval plateau of adiantum ferns studded with Bride roses and bordered with green ribbon and fringe.

At the diplomatic reception the absence of cut flowers was noticeable, the decorations being almost entirely plants. The mantels of the east room were banked as usual with cut flowers upon a background of green. The new scheme of massing tall palms and other foliage plants with multi-colored electric lights gleaming among the branches was a departure from the conventional plan which was much appreciated.

C. LESLIE REYNOLDS.

Montreal.

To say that trade is dull is drawing it exceedingly mild. "Nothing doing; never saw such a dull season; only for a little funeral work we might as well shut up shop," are the answers received on all sides to the question "How is business?" Flowers of all kinds are fairly plentiful, and as a result of the clear weather we have had for a couple of weeks are of a better quality.

The regular monthly meeting of the G. and F. Club took place on the 9th. A paper on "Insects and how to destroy them" was read by (Prof.) J. Bray, which although it contained nothing really new brought out a very interesting discussion. Judging from the essayist's practical system of prevention and extermination it would be a very bad thing for the insect who strayed into his greenhouse. He said, though he preferred cold water himself he sometimes treated mealy bug to whisky.

The nomination of officers for the ensuing year took place, and judging from the number of candidates the club is going to be well managed this year. Imagine! ten candidates for the office of president! In fact out of the 41 members present I don't think a single member escaped nomination for at least one office. BEAVER.

Ottawa, Ont.

The annual meeting of the Gardeners' and Florists' Club was held in the Capitol of the Dominion January 11, with a full attendance of the members. Previous to the regular business Mr. J. Watkins read a learned paper on the native cacti of Florida which was much appreciated. President H. F. Sims occupied the chair, and after reviewing the business of the club during the past year called for the annual election, which resulted as follows: President, Mr. H. F. Sims (re-elected); 1st Vice-President, Charles Scrim; 2nd Vice-President, James Hickey; Treasurer, John Graham; Secretary, Harry Parks; Committee of Management, Messrs. George Taylor, Tom Nicholson, A. Geddes, T. Elmett, Luke Williams, A. Hickey, A. Robb and T. J. Benbow; Auditors, Messrs. T. J. Benbow and A. Geddes. A considerable amount of routine business was then proceeded with, among which was the decision to hold the annual dinner of the club in the first week of February.

J. M.

Denver.

The Denver Florist Club has adopted the following resolutions regarding the loss to the club through the death of Avery Gallup:

Resolved, That by the death of Avery Gallup this club has lost one of its most valued members, one who was a leader among us and who had done much to further the best interests of this organization and of horticulture in the state of Colorado.

Resolved, That we express to his bereaved family our heartfelt sympathy and assurance that their loss is likewise our loss, and that the memory of him who has gone will ever be treasured in our hearts.

NEW BEDFORD, MASS.—At the annual meeting of the Gardeners' and Florists' Club the following officers were elected: President, Josiah Eaton, Jr.; vice-president, John P. Rooney; secretary, Frederick Puckering; assistant secretary, Chas. F. Riley; treasurer, Robert Taber; executive board—Robert Mitchell, Dennis Shea, Peter Murray and the above officers.

PITTSFIELD, MASS.—The annual meeting of the Gardeners' and Florists' Club of Berkshire County took place January 10. There was a large attendence, and the following officers were elected for the year: President, Col. W. Cutting; 1st vice-president, John White; 2nd vice-president, William Griffin; secretary, W. M. Edwards; treasurer, A. P. Lucas; auditor, A. P. Meredith; guard, J. G. MacArthur; executive committee—A. P. Meredith, J. F. Huss, Edward Dolby, George Thompson, Robert Johnson, Thos. Campbell.

NEWPORT, R. I.—At the annual meeting of the Newport Horticultural Society officers for the ensuing year were elected as follows: Pres., Andrew K. McMahon; 1st Vice-Pres., Ludlow Mahan; 2nd Vice-Pres., Earnest J. Dexter; Sec'y, Alexander MacLellan; Financial Sec'y, Chas. D. Stark; Treas., Richard Gardner; Sergeant at arms, Thos. Beattie. The society decided to hold a chrysanthemum exhibition in the fall. The last exhibition was the most successful that we have had, but from present indications it will be excelled this year.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By a first-class florist and gardener: married. Private place preferred. Best of references. Care of Box 503, Lake Geneva, Wis.

SITUATION WANTED—By first-class florist, to take charge. Thoroughly experienced in all branches. A1 references. FLORIST, box 765, Kalamazoo, Mich.

SITUATION WANTED—By a German florist; 24 years of age, on private or well situated commercial place; 9 years' experience. Address R. MAJOR, 5490 Madison Ave., Chicago.

SITUATION WANTED—By a first-class all-round man, where strict attention to business will be appreciated. First-class references State wages. Address R G. care American Florist.

SITUATION WANTED—By a first-class florist; commercial or private—the past two years employed at World's Fair grounds. Many years' experience. Address W W, 7000 Addison Ave., Chicago.

SITUATION WANTED—By a first-class florist and gardener; German; 15 years practical experience; married (no children). Private place preferred. Best of references. CARL HIRSCH, Lake Geneva, Wis.

SITUATION WANTED—By first-class designer a situation where artistic work is appreciated Fast worker; steady and sober. Moderate salary but steady place expected. Address Y Z, care Am Florist.

SITUATION WANTED—In commercial place, by a man thoroughly experienced in general greenhouse and floral work. Good references furnished. Address J A G. care Geo. A. Sutherland. 67 Bromfield St., Boston, Mass.

SITUATION WANTED—In commercial or private place as head gardener. Thorough experience in all parts of horticultural work. The very best of recommendation. Address K L, care American Florist, Chicago.

SITUATION WANTED—By florist; practical and sober; 8 years' experience in growing roses, chrysanthemums and carnations. Can furnish first-class references. Address ROSE GROWER, care American Florist.

SITUATION WANTED—By a German, single, age 31; 17 years' experience in growing roses, palms and general stock, including propagation; wants situation by February or March. Best of references. Address E F, care American Florist, Chicago.

SITUATION WANTED—The 1st of March by a practical florist. 12 years' experience; sober and steady, age 27; Swede. References on application. Vicinity of Chicago preferred. For further information Address ALBA, care American Florist, Chicago.

SITUATION WANTED—By a practical gardener and florist; 27 years' experience growing all kinds of plants and cut flowers; a good rose grower and a good propagator; single, sober, industrious. State wages. Address A. GERGEN, Shreveport P. O., La.

SITUATION WANTED—By a single young man as assistant or foreman on private place in New York or Conn.; understands rose, grape and plant growing and general greenhouse work. Long experience. First-class references. Address T. CONNOR, Port Washington, Long Island, N. Y.

WANTED—Plant and seed catalogues. Address B. F. VANDERVATE, Galena, Ill.

WANTED—A few stock plants of Oxalis Ortgiesii. W S J, care American Florist, Chicago.

WANTED—Catalogues of seeds, plants and nursery stock. BOEHRINGER BROS., Bay City, Mich.

WANTED—Catalogues of seeds and plants, also price lists of rooted cuttings. JOHN GUTMAN & BRO., Deanwood, D. C.

WANTED—An experienced grower of roses, carnations, and general stock of plants. Address F. V. R. STILLMAN & Co., Wellsville, N. Y.

WANTED—Immediately, a man with experience, who thoroughly understands propagation and growing of roses and chrysanthemums. Apply P. O. Box 582, Downer's Grove, Ill.

WANTED—Cash price on one thousand feet glass; and on soft coal heater to heat it—one that will not require night watching. DARLINGTON BROS., Morristown, Tenn.

WANTED—A competent and reliable florist to grow cut flowers and plants. Permanent place; good treatment and fair wages. Address EAST PA., care American Florist, Chicago.

WANTED—A good all round man who understands growing cut flowers and all kinds of plants for a retail place. Give references and state wages Address 914 Broad St., Newark, N. J.

WANTED—Live young man competent to take entire charge of general greenhouse business (7000 ft. glass) if necessary. State wages with board. References required. C. L. DOLE, 279 West Ave., Lockport, N. Y.

WANTED—Foreman for large cut flower growing establishment. If can't make yourself worth $1,000 a year don't answer. Will pay $2,000 or more to man that is worth it. Applications will be held confidential. Address METEOR, care American Florist, Chicago.

WANTED—Greenhouse, grape and rose gardener. Best of references. Must have been 2 years or more in one place; no children; not over 37 years old; good worker; married; $50.00, cottage, etc. free; on railroad, 25 miles from city. Address B A, care American Florist, Chicago.

WANTED—Man of-all-work, to care for yard, garden, two cows, two horses, and make himself generally useful; only one who understands the care of lawn, garden and flowers, as well as the care of stock, need apply. Prefer man about 30 years of age; must come well recommended. The man now leaving to engage in business for himself, has been with me for 10 years. Wages $25 per month and board. Good home for unlimited time to the right party. Address G. E. DILLEY, Palestine, Texas.

FOR SALE—Six large lots near Milwaukee Ave., 4 miles from Court House. Ground has been used for florist garden 11 years. Address C. E. WOOLLEY, 599 Fulton St., Chicago.

FOR SALE—$6,500 will purchase 12,000 square feet of glass, well stocked; 1 acre of land, and 8-room dwelling, in Chicago; or will rent greenhouses. Address H. S DIETRICH & Co., 90 La Salle St., Chicago.

FOR SALE OR TO RENT.

Nine greenhouses, well stocked; also wind mill, barn, pots, etc.; a mile from New York City. For full particulars, address J & W L, 328 Flushing Ave., Astoria, L. I., N. Y.

FOR SALE.

Five hundred cash and two thousand on easy terms will buy my florist plant, stocked and running. Possession at once. Profits will soon pay for it. Worth more than double. Anyone wanting, will buy it at once on seeing it. Have paralysis and rheumatism and cannot attend to it. Location and city first-class: cars pass and connect all roads. Come at once and secure bargain. LEWIS R. FOX, 117 E. Fulton St., Gloversville, N. Y.

FOR SALE OR RENT.

Three greenhouses 18x80 ft. each, 5000 ft. of glass, on large lot 90x250 ft. on main street in town of 6000 inhabitants, 1 hour's ride from Phila., in a live town, connections with Penn., B. & O. and P. & R. railroads. Everything new, heated by steam. Must sell on account of sickness. A No. 1 trade. Possession at once. Will sell right; or will lease for term of years. Address FLORIST, care American Florist.

WANTED.

A first-class man with experience in growing roses, carnations, chrysanthemums and palm stock. Only a man of thorough capacity wanted. Address GROWER, care Am Florist.

WANTED.

Experienced florist and propagator. As good a position as this country affords to the right man. Must be a thorough rose grower of executive capacity. Address B, care American Florist.

FOR SALE.

A large commercial establishment in New Jersey, consisting of about 10 acres of land, with 22 greenhouses of the following dimensions:

8 houses 18 feet wide by 100 feet long.
6 houses 16 feet wide by 100 feet long.
1 house 10 feet wide by 100 feet long.
2 houses 12 feet wide by 100 feet long.
4 houses 16½ feet wide by 100 feet long.
1 house 22 feet wide by 100 feet long.

All connected by a long shed and heated by the most improved Steam Boilers. The firing is all done in one place, and the ashes can be wheeled out. Finest water system in the world; six houses can be watered at one time without affecting the pressure.

This place is situated in a flourishing town—Market value of property is $1800 per Acre. It is 9 miles from New York by wagon route—all hard roads. Five minutes walk from Railroad Station; sixteen trains each way daily. There are two Auction Houses in New York and two Markets, the finest in the world for disposing of plants. It is also near two other large manufacturing cities, being 4 miles from one and 8 miles from another, both having good plant markets.

The out-buildings consist of a new barn 26 by 52 feet, the upper part of one-half being fitted up for man and family to live in, a large boiler house and carpenter shop, a flower cellar and Cut Flower room.

Without exception the location for a wholesale cut flower or plant establishment is unsurpassed.

Well stocked for Spring. Price $32,000. Will accept one-half cash, balance on bond and mortgage at 5 per cent. Address BARGAIN, care American Florist, Eastern Office, 67 Bromfield St., Boston, Mass.

ROOTED CUTTINGS

GOOD ONES.

Verbenas, 23 varieties	90c. per 100;	$8.00 per 1000
Heliotrope, 7 varieties	per doz.	20 cts.
Fuchsias, 12 varieties	"	20 cts.
Cigar Plant and Lopezia	"	20 cts.
Giant Alyssum and Marguerite Daisy	"	20 cts.
Manettia Vine, Mex. Primrose & Saitana	"	25 cts.
Red, White & Blue Plant (Cuphea Llavea)	"	30 cts.
Chrysanthemums, 20c. Coleus, 12c.	Postage 1c. a doz.	

Send for catalogue. I. L PILLSBURY, Macomb, Ill.

New Chrysanthemums.

YELLOW QUEEN—The greatest acquisition of the year. Its qualities are: Exceeding earliness, fine shape and large size of flower, extra stiff stem and handsome foliage, and dwarf, sturdy habit, averaging 2½ ft. high. A most beautiful clear yellow. For the past two years we have cut this variety in extra fine condition on Oct. 10th. Good, strong plants ready March 1st, per dozen, $3.50; per 100, $25.00.

Also the following 5 other extra fine new varieties.

ACHILLES—Winner of the first prize at New York show in open class. General build of flower in the style of "Ed. Hatch" but with a much better stem and foliage. Color when in perfection, a clear pearl white.

MALMAISON—Very large incurved clear pink at base, silvery pink on outside of petals. A grand var.

MAYFLOWER (White)—A very fine bold flower, incurved; good second early.

MINERVA—One of the finest yellows ever introduced. 2½ to 3 feet high with extra fine stem and foliage. Ready to cut Oct. 25. Two certificates.

TITIAN—Very large, deep, clear rose pink; very late. These five varieties at $6 per doz.; $35 per 100.

NEW ROSE.

MRS. W. C. WHITNEY. The greatest acquisition of the year. Winner of the **Whitney Cup** in **New York, two Medals** and **two Certificates** of merit, also the **Columbian Medal** and **Diploma** at **Chicago**, where it was blooming all last summer in the **New York Florist Club exhibit.**

$7.50 per dozen; $40 per 100; $250 per 1000.

CARNATION "IAGO"—The best crimson to date; deep, bright color, extra fine stem and very free flowering. $10.00 per 100; $80.00 per 1000. And all the other real acquisitions in carnations of recent introduction. Also all the new Chrysanthemums introduced this season by other raisers, and all the cream of the older varieties. Price list of the same now ready, and will be mailed to all applicants.

JOHN N. MAY, Summit, New Jersey.

HEADQUARTERS FOR ROSES.

100,000 READY NOW.

ALL SORTS. BEST VARIETIES.

	Per 100	Per 1000
From 2-inch pots, our selection	$ 3.00	$30 00
From 3-inch pots, our selection	5 00	50 00
From 4-inch pots, our selection	12.00	110.00
Hybrid Perpetuals, from 2-inch pots, in 50 leading sorts	4.00	40.00

Special Varieties at Special Rates.

Send your lists to be priced. Wholesale and Retail Catalogue ready and free to all.

We mention only a few leading sorts of Roses.

Bon Silene, Comtesse de Labarthe, Bride, Mermet, Etoile, Sombreuil, Dijon, Malmaison, Clothilde Soupert, Eliza Fugier, Kuster, Niel, Hermosa, Meteor, Lamarque, La France, Guinoiseau, Sunset, Krueger, Perle, Niphetos, Solfaterre, and a hundred others. ADDRESS

NANZ & NEUNER,
Louisville, Ky.

CONTRACT NOW for FORCING ROSES

for your next season's planting and secure well rooted stock grown specially for your order. Last year, owing to the heavy demands made upon us at planting time, we were unable to fill many orders, thus disappointing our customers. We are now contracting to grow, for delivery when wanted, the leading varieties of forcing roses—including the new kinds. **BRIDESMAID**, the best pink grown; **KAISERIN** and **TESTOUT**; also Meteors, Beauties, Woottons, Brides, La France, etc., etc.

We earnestly request intending purchasers to submit us a list of their wants, and we will be pleased to quote them special prices for strong, well rooted plants to be delivered when they may designate.

We make a Specialty of Growing Roses for the trade. Having experienced and competent growers. Our stock is first-class in every particular and we **guarantee satisfaction.** Of the many hundred unsolicited testimonials we append the following: "Roses got of you last year have been the best bearers we have in our houses. RIVERSIDE FLORAL CO., Marshalltown, Iowa."

Order Early and secure the Best.

L. L. MAY & CO.,
Florists and Seedsmen, ST. PAUL, MINN.

Our Wholesale and Retail Catalogue for 1894 mailed free on application.

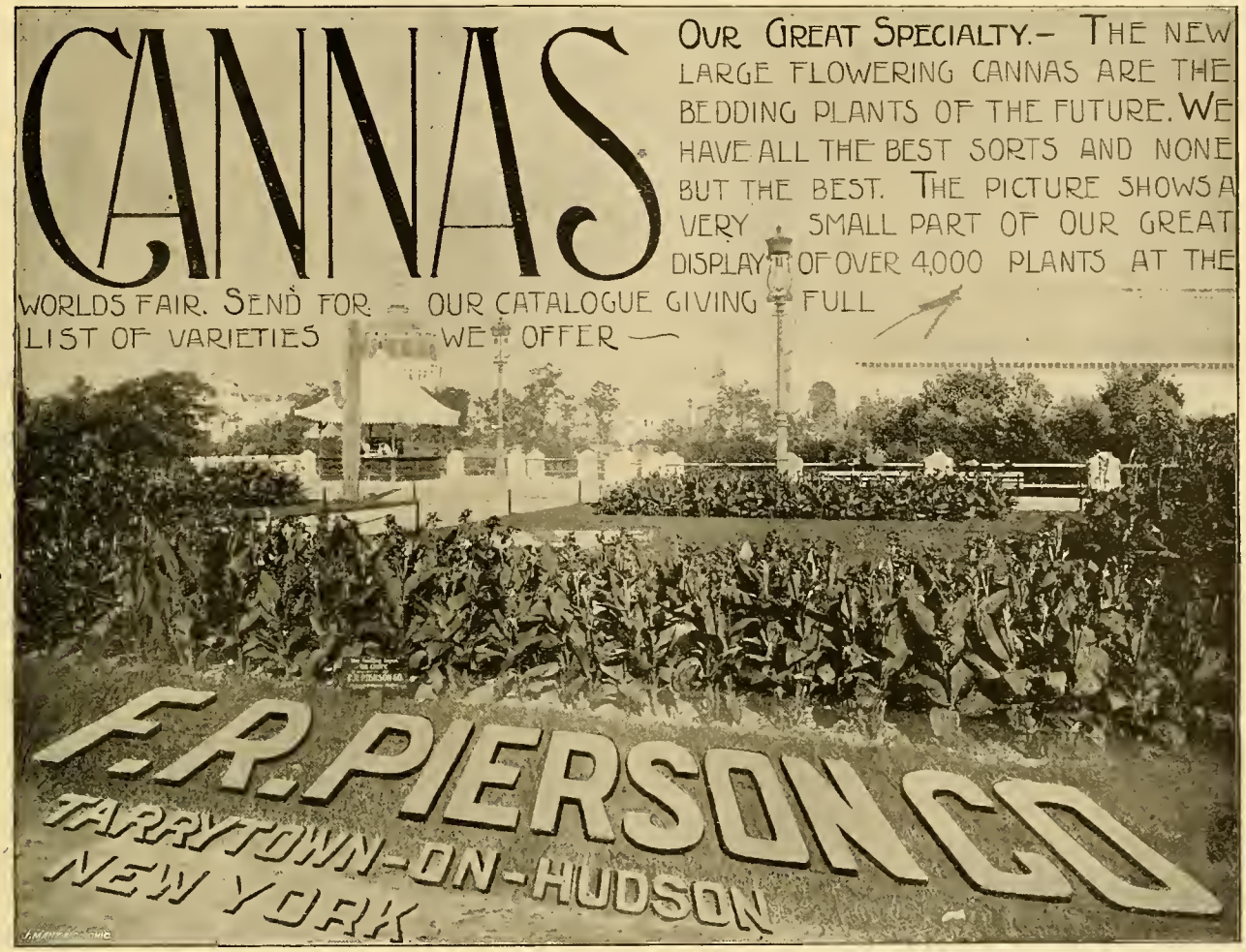
Forcing Roses.

A stock of the best varieties always on hand.

M. A. HUNT, Terre Haute, Ind.

SARCASTIC CUSTOMER.—Don't you strain yourself sometimes making out such heavy bills?

FLORIST.—Yes, but when I think of the struggles of the poor collector I don't feel like complaining.—*Pittsburg Press.*



Rooted Cuttings

COLEUS, 10 sorts, **60c. per 100**
BY MAIL.

SAMPLE DOZEN, without names, mailed for 10 cts.

S. O. STREBY,
Lock Box 77,
UPPER SANDUSKY, OHIO.

FRESH IMPORTED ORCHIDS.

Cattleya Gaskelliana,
5—7 Bulbs, $.75 each.
7—12 Bulbs, 1.25 each.
Larger plants, $2.00 to $5.00 each.
I. FORSTERMAN,
Newtown, N. Y.

WHY NOT TRY
A FEW ORCHIDS?

They are Very Cheap. They are Easily Grown. They Sell Well.
They always attract attention in store or greenhouse.
BRACKENRIDGE & CO.,
304 W. Madison St., BALTIMORE, MD.

THE AMERICAN FLORIST and *Gardening* together to one address for $1.75. Send orders to the American Florist Co.

Please mention the AMERICAN FLORIST every time you write to an advertiser.


FANCY. DAGGER.

EVERGREEN CUT FERNS

ESPECIALLY FOR FLORISTS' USE.
$1.25 PER THOUSAND FERNS.
IN LOTS OF 5000 AND UPWARDS, $1.00 PER 1000. Ferns furnished the year round. Special attention given to supplying the Wholesale Trade.
L. B. BRAGUE, Hinsdale, Mass.

Wild Smilax, Pines and Palmettos

FOR DECORATIONS
AT LOW FIGURES.

Low freight rates by steamer to New York, Boston, Philadelphia and Baltimore.

A. C. OELSCHIG,
SAVANNAH, GA.
Mention American Florist.

Galax Leaves.

You cannot afford to be without them if you sell Cut Flowers and Decorate. Especially for Christmas. Big money in them. I sold 300,000 in 3 months last winter. **$2.00 per 1000** by express. Sample 100 sent by mail on receipt of 50c.
LINCOLN I. NEFF, Florist,
4010 Butler St., PITTSBURG, PA
AGENT FOR HARLAN P. KELSEY.

FLORAL DESIGNS

The Cut Flower Worker's Friend. Fine book of 160 pages. Send **$3.50** for it, to
J. HORACE McFARLAND, Harrisburg, Pa.

Siebrecht & Wadley,

ROSE HILL NURSERIES,
NEW ROCHELLE, N. Y.
Palms,
ORCHIDS,
Roses,
and New Plants.
FRESH DRACAENA CANES NOW READY.

ORCHIDS.

The Finest Stock in the World.
SANDER'S,
ST. ALBANS,
ENGLAND.
Thirty minutes from London.
Our Mr. A Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

EXTRA CHOICE FLOWER SEEDS.

List free on application.
FRED. ROEMER, SEED GROWER,
QUEDLINBURG, GERMANY.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Society of American Florists.

The executive committee of the Society of American Florists will meet in annual session at the Colonnade Hotel, Philadelphia, on Tuesday, February 13, 1894. Many of the members of the society no doubt have ideas as to subjects which could be with profit embodied in the program for next summer's convention or could suggest to the executive committee plans of improvement or advancement in the society's work. Now is the time to bring such matters to the attention of the executive committee that they may receive careful consideration and all such assistance from the members at large is sure to be welcomed by the committee. Communications should be addressed to Secretary Stewart.

The three members of the executive committee whose terms expired with the year 1893 are W. A. Manda, Short Hills, N. J; P. Welch, Boston, Mass.; H. W. Buckbee, Rockford, Ill. President-elect Anthony has selected J. C. Rennison, Sioux City, Iowa; E. A. Wood, West Newton, Mass.; Alex Waldbart, St. Louis, Mo., as the three new members who will take their places.

WM. J. STEWART, Sec'y.

Catalogues Received.

R. Witterstaetter, Sedamsville, Cincinnati, O., chrysanthemums and carnations; Chas. D. Ball, Holmesburg, Phila., Pa., decorative plants; Seven Oaks Nurseries, Union Springs, Ala., plants; Alfred F. Conard, West Grove, Pa., plants and seeds; G. R. Gause & Co., Richmond, Ind., plants and seeds; R. Frotscher, New Orleans, seeds; Drumm Seed and Floral Co., Fort Worth, Texas, seeds and plants; D. M. Ferry & Co., Detroit, Mich., seeds; Haage & Schmidt, Erfurt, Germany, seeds and plants; W. Piercy, Forest Hill, London, Eng., chrysanthemums; Thos. H. Spaulding, Orange, N. J., chrysanthemums, cannas and begonias; R. & J. Farquhar & Co., Boston, Mass., seeds and plants; J. Seulberger, Oakland, Cal., seeds, plants and nursery stock; H. G. Faust & Co., seeds; O. M. Richardson, Canton, Me., plants and seeds; Harnden Seed Co., Kansas City, Mo., seeds; Robert Scott & Son, Philadelphia, plants and seeds; Jos. Breck & Sons, Boston, seeds and plants.

THE PROGRAM of the 160th horticultural exposition of the Societe Royale d'Agriculture et de Botanique, of Ghent, Belgium, recently received by us, contains schedule of premiums at the show November 11-13, 1894. Chrysanthemums are naturally prominent, but there is quite a lengthy list of other classes, both of flowering and foliage plants.

CORBREY & McKELLAR,
Wholesale and Commission Florists,
Phone Main 4508. **45 Lake Street, CHICAGO.**
We are prepared to fill your orders with First-Class Flowers.
Give us a trial order.

FOR DECORATING, NOTHING CAN EQUAL
ASPARAGUS PLUMOSUS NANUS.
CUT STRINGS 8 TO 12 FEET LONG, 50 CTS. 12 TO 18 FEET LONG, $1.00.
Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.
W. H. ELLIOTT, Brighton, Mass.

GEORGE A. SUTHERLAND,
SUCCESSOR TO
PECK & SUTHERLAND,
Successors to WM. J. STEWART,
CUT FLOWERS
and Florists' Supplies.
WHOLESALE.
67 Bromfield St., BOSTON, MASS.

CUT SMILAX,
10c. per String, net cash.
15,000 Strings now ready for the market, which must be moved to make way for coming crop.
Special quotations on orders of one hundred strings and over.
Send for Catalogue of ROSE PLANTS.
THE NATIONAL PLANT CO.,
Dayton, Ohio.

HARDY CUT
FERNS!
5,000,000 ON HAND.
EVERYTHING GREEN ALWAYS IN STOCK.
H. E. Hartford,
18 Chapman Place, BOSTON, MASS.

Orchid Cut Flowers.
CATTLEYAS, $50 per hundred.
PITCHER & MANDA,
UNITED STATES NURSERIES,
SHORT HILLS, N. J.

SALEM, OHIO.—J. E. Bonsall & Son have dissolved partnership. LeRoy F. Bonsall (the junior partner) takes part of the glass and continues the retail part of the business, Joseph E. Bonsall using the balance in a wholesale trade, making a specialty of smilax.

Wholesale Florists
The LaRoche & Stahl Flower Co. Limited.
N. E. CORNER
13th & Chestnut Sts.
PHILADELPHIA.

Frowert & Smith,
WHOLESALE FLORISTS,
1131 Girard Ave., Philadelphia, Pa.
Consignments Solicited. Advances made.

SAMUEL S. PENNOCK,
Wholesale Florist
REAR OF 42 S. 16th STREET,
Philadelphia, Pa.

H. L. SUNDERBRUCH,
Wholesale Florist
4TH AND WALNUT STREETS,
Cincinnati, O.

W. ELLISON,
WHOLESALE
Cut Flowers AND Florists' Supplies
1402 PINE STREET,
St. Louis, Mo.

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
WHOLESALE
FLORIST,
1122 PINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

DAN'L B. LONG,
COMMISSION • FLORIST,
495 Washington St., BUFFALO, N. Y.
FORCING BULBS, FLORISTS' SUPPLIES, LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO.

	Per 100
Perles, Niphetos, Gontier	$ 2.00@$ 4.00
Bride, Mermet, La France	4.00@ 6.00
Meteor, Bridesmaid, Testout	5.00@ 7.00
Carnations, long, white	1.00@ 2.00
" " colored	1.50@ 2.00
" short	.75@ 1.00
Smilax	15.00
Callas, Harrisii	12.50
Romans, Paper White Narcissus	2.00@ 3.00
Violets	1.00@ 1.50
Lily of the Valley	4.00@ 5.00
Adiantum	1.00
Ferns, common per 1000 $2.50.	.25

Cycas leaves, fresh, each $1; same preserved, each 75c.
Western Agent for the GREAT ANTIPEST.

FLINT KENNICOTT, President. FRED. W. H. SUNDMACHER, Sec'y and Treas.

Kennicott Bros. Co.
34 & 36 RANDOLPH STREET,
CHICAGO.
WHOLESALE CUT FLOWERS,
and FLORISTS' SUPPLIES.
WIRE WORK A SPECIALTY.

General Agents for Chicago and the Northwest of Kelsey's Beautiful New Southern Galax Leaves, $2.00 per 1000; 25 cents per 100.

A. L. RANDALL,
Wholesale Florist,
126 Dearborn St., CHICAGO.

Agent for finest grades Waxed and Tissue Papers.

J. B. DEAMUD & CO.
WHOLESALE CUT FLOWERS,
45 LAKE STREET,
IN CUT FLOWER EXCHANGE, CHICAGO.

REINBERG BROS.
WHOLESALE GROWERS OF
CUT FLOWERS
Roses, Carnations and Violets Specialties.
51 WABASH AVENUE,
Telephone 4937. CHICAGO.

WHOLESALE FLORISTS,
JOBBERS IN . . . FLORISTS' SUPPLIES,
METS, BRIDES, GONTIERS, CARNATIONS, ALWAYS ON HAND. FLORISTS' VASES.
1 Music Hall Place,
BOSTON, MASS.
HORTICULTURAL AUCTIONEERS. . .

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St., BOSTON, MASS.

Wholesale Markets.

Cut Flowers.

NEW YORK, Jan. 22.

Roses, Gontier, Niphetos	1.00@ 3.00
" Perle	2.00@ 3.00
" Cusin, Watteville	2.00@ 6.00
" Mermet, Bride	2.00@ 6.00
" Bridesmaid	4.00@ 8.00
" Testout, La France	4.00@10.00
" Meteor	4.00@12.00
" Beauty	5.00@50.00
" Hybrids	15.00@50.00
Violets	.35@ 1.50
Carnations	.50@ 1.00
" fancy	2.00@ 4.00
Valley	2.00@ 4.00
Roman Hyacinths, Paper White Narcissus	1.00@ 2.00
Daffodils	4.00@ 6.00
Mignonette, bunches	10.00@25.00
" fine spikes	2.00@ 8.00
Cypripediums	10.00@15.00
Callas, Harrisii	5.00@10.00
Lilacs, per bunch	75c to $1.25
Smilax	5.00@15.00
Adiantum	.50@ 1.00

BOSTON, Jan. 22.

Roses, Niphetos	3.00
" Gontier	4.00
" Perle, Sunset	5.00@ 6.00
" Bride, Mermet	6.00@10.00
" American Beauty	15.00@50.00
Carnations	1.00@ 2.00
Lily of the valley	4 00
Roman Hyacinths	1.00@ 1.50
Paper white narcissus	2.00
Trumpet narcissus	2.00@ 6.00
Freesia	2.00@ 4.00
Callas, Harrisii	8.00@12.00
Mignonette	2.00@ 8.00
Violets	.65@ 1.00
Adiantum	1.00
Smilax	12.50
Asparagus	50.00

PHILADELPHIA, Jan. 22.

Roses, Perle, Gontier, Niphetos	3.00@ 4.00
" Cusin, Watteville, Hoste	4.00@ 6.00
" Bride, Mermet, La France	6.00@10.00
" Kaiserin, Bridesmaid, Testout	8.00@12.00
" Belle, Beauty	25.00@40.00
" Brunners	50.00
" Laings	25.00@35.00
Carnations, H. Keller	7.00
" Ophelia, Sweetbrier, Daybreak	2.00@ 3.00
" Edna Craig	3.00@ 4.00
Valley	3.00@ 4.00
Romans, Narcissus	2.00@ 4.00
Smilax	12.00@16.00
Adiantum	1.00@ 1.50
Violets	1.00@ 1.50
Mignonette	1.50@ 2.50
Asparagus	50.00@75.00
Harrisii lilies	12.00@15.00
Callas	6.00@ 8.00
Freesia	1.00@ 1.50
Tulips	4.00@ 5.00
Daffodils	6.00

CHICAGO, Jan. 23.

Roses, Beauty	10 00@35.00
" Bride, Mermet, La France	3.00@ 6.00
" Perle, Niphetos, Gontier	3.00@ 5.00
" Meteors	5.00@10.00
" Wootton, Bridesmaid, Testout	5.00@ 8.00
Carnations, short	.35
" long	1.00@ 1.50
" fancy	2.00@ 3.00
Violets	1.00@ 2.00
Valley	4.00@ 5.00
Tulips	4.00
Daffodils	6.00
Romans, paper white	1.00@ 3.00
Harrisii, Callas	5.00@15.00
Cattleyas	50.00
Adiantum	1.00
Asparagus	50.00
Smilax	15.00

ST. LOUIS, Jan. 22.

Roses, Perles, Niphetos, Wootton	3.00@ 4.00
" Watteville, Hoste	5.00
" Bride, Mermet, Bridesmaid	4.00@ 5.00
" Beauty	5 00@50.00
Harrisii, Callas	10.00@15.00
Narcissus	3.00
Romans	2.00
Valley	4.00
Carnations	1.00@ 2.00
Violets	25
Smilax	15.00
Adiantum	1.25

CINCINNATI, Jan. 20.

Roses, Mermet, Bride	5.00@ 6.00
" Perle	4.00
Narcissus	3.00@ 4.00
Carnations	1.00@ 2.00
Callas	8.00
Harrisii	12.50
Violets	1.00
Pansies	1.00
Valley	4.00
Romans	2 00@ 3.00
Smilax	10.00@15.00
Adiantum	1.00@ 1.25
Asparagus	50.00@75.00

BUFFALO, Jan. 22.

Roses, Beauties	20.00@35.00
" Mermet, Bride	6.00@ 8.00
" Bridesmaid, La France	8.00@10.00
" Gontier, Perle, Niphetos, Hoste	5.00@ 6.00
" Cusin, Watteville	5.00@ 6.00
" Meteor	6.00@ 8.00
Callas, Harrisii	12.00@15.00
Tulips, daffodils	3.00@ 4.00
Hyacinths, Narcissus	2.00@ 3.00
Violets	1.00@ 1.50
Valley	3.00@ 4.00
Carnations, long	1.50@ 2.00
" Daybreak	2.00@ 2.50
" short	1.00
Smilax	15.00
Adiantum	1.50
Asparagus	50.00

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
Wholesale Dealers in and Shippers of
Choice Flowers
OUR SPECIALTIES:
AMERICAN BEAUTIES, METEORS, BRIDESMAIDS.

CUT FLOWERS.
ROSES, standard varieties and novelties.
Carnations, all the new sorts in finest quality.
VIOLETS, MIGNONETTE AND VALLEY.
FIRST QUALITY STOCK. WHOLESALE ONLY.
THOS. YOUNG, JR.,
20 WEST 24TH ST., NEW YORK.

WALTER F. SHERIDAN,
• WHOLESALE •
FLORIST,
32 West 30th Street, NEW YORK.
Roses Shipped to all points. Price list on application.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS,
51 W. 30th St., NEW YORK.

JAMES HART,
WHOLESALE FLORIST.
117 W. 30TH ST., NEW YORK.
The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHRS,
WHOLESALE
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.
Established 1879. . . .

MILLANG BROS.,
Wholesale Florists,
17 WEST 28TH STREET,
NEW YORK.
BRANCH: Cut Flower Exchange, 408 E. 34th Street.

Edward C. Horan,
34 W. 29th Street, NEW YORK,
WHOLESALE FLORIST.
Careful Shipping to all parts of the country
Price list on application.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and treasurer, 114 Chambers street, New York. Next annual meeting second Tuesday in June, (will probably be held in Toronto.)

Wilson Bill Proposed Duties Affecting Seed Trade.

Agricult'l and garden seeds n. o. p. f.	free
Beans	20 per cent
Cuttle bone	free
Broom corn	"
Buckwheat	20 per cent
Bulbous roots	free
Canary seed	"
Castor beans	25c bush.
Coriander seed	free
Corn or maize	20 per cent
Cummin seed	free
Fenugreek seed	"
Flax seed	20c bush.
Flowers artificial	35 per cent
Flowers of sulphur	free
Flower seeds	"
Guano	"
Hemp seed	"
Herbs	"
Horehound seed	"
Land and water fowls	"
Lily of the valley	"
Mangel Wurzel seed	"
Manures or fertilizers	"
Musbrooms (prepared, etc.)	30 per cent
Nursery stock	free
Oats	20 per cent
Onions	20c bush.
Orchids	free
Peas	20c bush.
Plants, fruit	free
" tea	"
Ploughs, reapers and planters	"
Pocket knives	35 per cent
Poppy seed	20c bush.
Potatoes	10c bush.
Prints, lithographic	25 per cent

Rape seed, aromatic, bene, caraway, cardamon, cotton, croton, fenuel, grass, mustard, sugar cane, sugar beet and sorghum—free.

The Wilson Tariff Bill on Seeds.

Messrs. D. Landreth & Sons, Philadelphia, are out with a circular dated January 17, 1894, asking if it is not time for the American seed growers to meet in convention to protest against the new Wilson tariff bill admitting garden seeds, excepting peas and beans, free. It occurs to us that the Tariff Committee of the American Seed Trade Association could handle this subject to advantage and probably with considerable effect, representing as they would the seed trade of the United States.

In this connection and evidently in reply to a similar circular the FLORIST has been favored with a copy of the following letter, which explains itself:

Office of
SCHLEGEL & FOTTLER,
26 So. Market St.,
BOSTON, MASS., Jan. 19, 1894.

MESSRS. D. LANDRETH & SONS,
Philadelphia, Pa.

Gentlemen:—We received your circular asking us to join in a movement to protest against that provision of the Wilson bill which placed garden seeds upon the free list. When such houses as yours and others doing an extensive business as growers and dealers in seeds have never considered that there was any advantage to themselves to become identified with the Association representing so many of the seed dealers of America—an association that has always needed the counsels and influence of such houses as yours—how can you expect that members of that Association, either as individuals or collectively, should act with you? It seems to us that it is the want of *united action* on the part of all American seedsmen that is largely responsible for the condition in which the trade finds itself.

We should begin with a movement towards abolishing the free distribution of seeds by our government. If it is right and proper for our government to annually give away seeds to the people—seeds costing the government each year one hundred thousand dollars, more or less—then it is also right to continue the same line of policy in making seeds cheap for the people by taking off all duties. We should at least be consistent.

We will join any movement that will help to place our line of business upon a level with that of others. There is no justice or reason in continuing this free Government seed business. Other necessaries of life should as properly be distributed to the people free of cost.

Let us begin at the root of the worst evil our business has to contend with, and we believe that every seedsman in America will join in asking for a fair share of protection. Sincerely yours,

JOHN FOTTLER, JR.

WM. H. RAND, formerly with Elliott & Sons, has taken a position with August Rolker & Sons as salesman and traveling agent.

THE STOCK OF Phil. Stimmel at Omaha is advertised to be sold at public auction in that city on January 27, 1894, and at Waterloo, Neb., similar stock on January 29.

THE FIRM of Graham, Passmore & Co., manufacturers of the Philadelphia lawn mowers at Philadelphia, are succeeded by the Philadelphia Lawn Mower Co., 3907 and 3909 Chestnut street, Philadelphia.

ONION SEED for the past three weeks has sagged badly and no one seems to know just why even whites are down. When trade does set in it seems as if there must be an advance on some sorts. Sets have been dull, but should advance. Trade seed orders are fairly good. The mail trade is hardly far enough advanced to judge of it.



NEW CROP ONION SEED

$1.00 PER POUND— Either RED WETHERSFIELD or YELLOW DANVERS.

$2.25 PER POUND for American Grown Prizetaker,

In lots of FIVE POUNDS of one kind or assorted as desired. With every $5.00 order goes FREE a copy of Greiner's Newest and Best Book, "ONIONS FOR PROFIT," telling all the Secrets of Success in Old and New ONION CULTURE.

If You Garden for Profit

you can save money and should buy at Wholesale Prices, as quoted in BURPEE'S BLUE LIST for 1894. It is mailed FREE to Market Gardeners everywhere, who, while entitled to *the lowest prices possible*, should always be sure to get Only the Best Seeds That Grow! BURPEE'S SEEDS ARE WARRANTED,—*few equal, none better*—and are annually sold direct to many more planters than are the seeds of any other growers.

W. Atlee Burpee & Co., Seed Growers, Philadelphia, Pa.

☞ If you have not already seen BURPEE'S FARM ANNUAL for 1894, write for it TO-DAY. A handsome book of 172 pages, it is pronounced by papers everywhere *The Leading American Seed Catalogue.* It tells all about the Choicest Vegetables and Most Beautiful Flowers for THE HOME GARDEN.

FIFTY THOUSAND

PEARL TUBEROSES.

F. O. B. NEW YORK.

We offer selected bulbs of above, from four to six inches in circumference, for present shipment, at $9.00 per 1000. Orders accepted subject to being unsold.

SWEET PEAS, California grown.

We are headquarters for California grown Sweet Peas, and parties desiring to contract for their requirements for season of 1894, will do well to write for prices.

SUNSET SEED & PLANT CO.

(SHERWOOD HALL NURSERY CO.)

427-9 Sansome St., *San Francisco, Cal.*

Hulsebosch Brothers,

OVERVEEN, HAARLEM, HOLLAND.

	Per 100	Per 1000
LILIUM SPECIOSUM ALBUM	$ 6.00	
" " ROSEUM	5.00	
" " RUBRUM	5.00	
SINGLE BEGONIAS, fine bulbs, new crop, finest strain, in 4 separate colors.	4.00	35.00
CONVALARIA MAJALIS, German pips.	1.00	8.00
TUBEROSES, Pearl and Tall, Al (big) bulbs.	.90	7.50
LOW BUDDED ROSES, in sorts, Dutch Stock	9.00	
English Stock	11.00	

All other plants or shrubs can be ordered for March, '94 delivery.

HULSEBOSCH BROS.,

58 West Street, NEW YORK CITY.

SEEDS!

PLANTS! BULBS!

Everything appertaining to the Farm and Garden of the best and choicest quality. PRICES RIGHT.

Catalogue on application.

WEEBER & DON.

114 CHAMBERS ST., NEW YORK CITY.

Z. De Forest Ely & Co.

WHOLESALE SEEDSMEN,

Growers AND Importers of Bulbs.

JOBBERS IN FLORISTS' SUPPLIES.

1024 Market Street, PHILADELPHIA, PA.

Price lists to dealers on application.

G. J. MOFFATT,

Manufacturer of

PAPER BAGS AND ENVELOPES

Special attention given to

Seed Bags and Catalogue Envelopes.

NEW HAVEN, CONN.

WHEN writing our advertisers please use one of your printed business letter heads or enclose your business card.

BARGAINS,

GOOD PLANTS, and ready to ship NOW.

	Per 100
Geraniums, Mme Salleroi, very stocky, 2-inch	$ 1.50
" Bronze, strong, 2-inch	3.00
Coleus, splendid assortment, 2 in. $12.50 per 1000,	1.50
" Golden Bedder (alone), strong, 2-inch	2.00
Heliotropes, 2-inch	2.00
Fuchsias, good assortment, 2-inch	3.00
Canna Mme. Crozy, dry bulbs, $1.00 per dozen.	

I have the following in **ROOTED CUTTINGS**, ready to ship any day.

Geraniums, best bedders, 5 to 20 varieties	$ 1.25
" La Favorite, best double white	1.25
" Rose Scented	1.25
" Mme. Salleroi	1.00
Ivy Leaf Geraniums, fine double varieties mixed	2.00
Coleus, about 20 splendid varieties in mixture	.50
" Golden Bedder (when ordered alone)	.75
Double Sweet Alyssum	.50
Carnation Portia	1.00
" Lizzie McGowan	1.00
" Puritan	1.25
" Nellie Lewis	1.50
" Fred. Dorner	1.25
" Grace Wilder	1.00
" Aurora	1.50
" Garfield	1.50
100,000 Rooted Cuttings Carnations ready.	
Alternanthera aurea nana	.50
" P. major	.50
Manettia Vine	1.00

N. S. GRIFFITH, Independence, Mo.

Independence is well located for shipping, being 8 miles East of Kansas City, Mo.



Write for Wholesale List.

MICHEL PLANT AND BULB CO., ST. LOUIS, MO.

Mention American Florist.

GEO. W. WEST,

GROWER AND EXPORTER OF

BERMUDA BULBS,

Lilium Harrisii,	Lilium Longiflorum,
Freesia Refr. Alba,	Calla Lily,
Amaryllis Johnsonii,	French Cannas, best vars.
Amaryllis Regina,	White Rom. Hyacinths

CYCAS PALM LEAVES
A Specialty.

SHELLY BAY, - - BERMUDA.

TESTED SEEDS

Plant Tested Garden, Flower and Farm Seeds and be sure of a good crop. Our stock is complete and the quality is unsurpassed. Send for our *Free Illustrated Catalogue* of Seeds, Plants, Bulbs, Tools, Etc.

W. W. BARNARD & CO., Chicago,
(Successors to Hiram Sibley & Co.) 6 & 8 N. Clark St.

For Mildew on Roses
and CARNATION RUST,
USE FOSTITE.

Book on Fostite sent free.

Address **C. H. JOOSTEN,**
3 Coenties Slip, NEW YORK.

ANNOUNCEMENT.

I desire to inform the trade that I have severed my connection with the corporation of Pitcher & Manda, and have established myself in the general Floricultural business at South Orange, New Jersey. I trust that my former patrons and friends will favor me with their valued orders as before.

Very truly yours, **W. A. MANDA,**

The Universal Horticultural Establishment, SOUTH ORANGE, N. J.

WANTED—Catalogues and special quotations from the trade.

OFFERS WANTED for $15,000 or more of my stock of Pitcher & Manda. No reasonable offer refused.

HOW TO GROW CUT FLOWERS.

A PRACTICAL TREATISE ON

THE CULTIVATION OF THE ROSE,

And Other Flowering Plants for **Cut Flowers**, sent to any address upon receipt of **$2.00.** **M. A. HUNT, Terre Haute, Ind.**

100,000 VERBENAS.

THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.

NO RUST OR MILDEW.

Packed light, and satisfaction guaranteed. Send for circular. . . .

We are the largest growers of Verbenas in the country. Our sales reaching last year 215,500. Our plants this year fully equal, if not surpass, any we have ever grown.

J. L. DILLON, Bloomsburg, Pa.

Zirngiebel's Seeds for Florists.

QUALITY GUARANTEED.

GIANT MARKET AND GIANT FANCY PANSIES.

EARLY AND LATE ASTERS, all colors.

EXTRA EARLY DWARF WHITE STOCK, in trade packages, at $1.00 each.

DENYS ZIRNGIEBEL, Needham, Mass.

200,000 Pansies.

The Jennings strain of large flowering and fancy pansies may still be had in any quantity wanted. Plants are field grown, and are fine and stocky. Finest mixed, by Express, $5.00 per 1000; 5000 $20.00; 10,000 $35.00. Small plants by mail, 60c. per 100.

Seed, pure white, yellow or mixed, $1.00 per trade pkt. of 2,500 seeds. The leading strain. The largest sales. Always satisfactory.

ADDRESS **E. B. JENNINGS,**
WHOLESALE PANSY GROWER,
Lock Box 254. SOUTHPORT, CONN.

Premium American Pansy Seed

Grown by Wm. Toole, Baraboo, Wis. Descriptive list of 82 varieties and mixtures with *Pansy Guide free.*

Hesperian Pansies, 25 cts. pkt. Selected mixed, 15 cts. pkt.; ½ oz. 75 cts. Extra choice mixed, 10 cts.; ½ oz. 50 cts. Trade pkts., 1000 seeds, double price of single pkts.

WM. TOOLE, Pansy Specialist, Baraboo, Wis.

E. G. HILL & CO.,

Wholesale Florists

RICHMOND, INDIANA.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

HEADQUARTERS FOR COLEUS

Golden Queen, Golden Bedder, and Crimson Verschaffeltii specialties; also a large number of other varieties. Rooted Cuttings $6.00 per 1000. Liberal discount for large orders.

Geraniums, 2½-in. pots, $20 per 1000; $2.25 per 100; from flats, $15 per 1000; $1 75 per 100. Ageratums, blue and white, rooted cuttings, 75c. per 100. Fuchsias, leading sorts, 2½-in. pots, $2 per 100; rooted cuttings, $1.25 per 100. Petunias, Dreer's strain, 2½-in. pots, mixed, $2.50 per 100; rooted cuttings $1 50 per 100; Double White same price. Heliotrope, 4 varieties, rooted cuttings, $1.25 per 100. Salvia Splendens, $1.25 per 100 rooted cuttings. At these prices the selection of sorts to remain with us. Cash must always accompany the order. **J. E. FELTHOUSEN,**
370 Van Vranken Avenue, SCHENECTADY, N. Y.

PALMS.

150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

Address **GEORGE WITTBOLD,**
1708 N. Halsted St., CHICAGO.

HEADQUARTERS for WATER LILIES

SEED of Red, White and Blue varieties, 50 cts. per trade pkt.

Nelumbium speciosum (Egyptian Lotus), N. s. roseum, N. luteum. Prices on application.

My Columbian Novelties will be ready for distribution this spring. These include such vars. that received special award at the World's Fair, and other rare vars.

Wm. TRICKER, DONGAN HILL New York.

THE GREAT ANTIPEST.

For particulars, see next week.

R. W. CARMAN, GEN'L AGT.,
291 Amity Street, FLUSHING, Queens Co., N. Y.

California Midwinter Exposition.

There will be held at the California Midwinter International Exposition, which opens on the 27th of this month in San Francisco, a great citrus and deciduous fruit show in the Horticultural Building that perhaps will be the greatest citrus exhibit ever held in the country.

There will be semi-monthly flower shows throughout the six months, and it is expected that these exhibitions will be superior to anything ever attempted in the west. One of the unique features will be the wild flower exhibit.

There will be also held in connection with the Horticultural Department a series of fruit conventions which will convene in the latter part of April, the exact date not yet having been set. Oregon, Washington, Nevada and Arizona have been invited to participate in these Congresses. It is our desire now to cordially invite horticulturists throughout the United States and Europe who are interested in California's horticultural progress to be with us and participate in these great meetings. EMORY E. SMITH,
Chief Departments of Horticulture and Agriculture.

Assessing Greenhouse Property.

I own four acres of land with ten greenhouses, all with modern improvements, for which I am assessed $3,000—3% levy. Three of the houses were built in 1892. When the assessor asked me what they cost I told him from $600 to $800. Still my assessment was raised from $1,900 to $3,000, which I think is more than the plant should be assessed for. The greenhouses are assessed for $1,800, half again as much as the real estate they stand on, and I have found it impossible to convince the assessor that greenhouses should not be assessed so high. I should be glad to know how greenhouses are rated in other cities. E. HAENTZE.
Fond du Lac, Wis.

CHOICE SEEDS.

PETUNIA FIM. FL. PL.

The largest and finest strain of double fringed and mottled Petunias to be had. All who see these Petunias say they are the finest they ever saw. Selected specially for florists. Extra.

VERBENA GRAND.

This fine strain of Mammoth Verbenas gives perfect satisfaction to my many customers and is justly claimed to be the finest in cultivation. Florets an inch in diameter, in immense umbels, of the finest colors.

Per liberal Trade Packet of each of the above, 25 cts. 3 pkts. 60 cts.; 6 pkts. $1.00.

JOHN F. RUPP, Shiremanstown, Pa.

THE ASSOCIATION FLORA,

BOSKOOP, HOLLAND.

NOW ON HAND IN NEW YORK:

CLEMATIS in sorts, 3 years.....	per 100	$25.00
SPIRÆA JAPONICA	"	4.00
DIELYTRA SPECTABILIS.....	"	4.00

Lilium speciosum, Pæonias Rhododendrons, Azaleas H. P. Roses, in best varieties, per 100 $9 00; Abel Carriere, Alfred Colomb, Anna Alexieff, A. de Diesbach, B. Rothschild, Fisher Holmes, Gen. Jack, La France, Mme. G. Luizet, Mme. Plantier, Magna Charta, Paul Neyron, P. C. de Rohan, Perle des Blanches, Ulrich Brunner and others. Catalogue on application.

P. OUWERKERK,
206 Cambridge Ave., JERSEY CITY, N. J.

Verbenas

SPECIAL OFFER. Per 100 Per 1000

Unsurpassed Mammoths, 2¼-inch pots....	$3.00	$25.00
" " rooted cuttings,	1.25	10.00
Genera collection, named, " "	1.00	8.00
" " " 2¼-inch pots...	2.50	20.00
H. P. Roses, dormant, strong.....	6 00	75.00
Tea " " "	6.00	50.00
Forcing " 3-inch pots, "	6.00	50.00

WOOD BROTHERS,
Fishkill, N. Y.



WHY do so many Canna Growers say they have a YELLOW Canna "As good as Florence Vaughan?"

This Canna has been introduced to the trade in America and Europe solely by us, not by M. Crozy, the originator, as stated by some of our competitors. The true stock has been disseminated wholly and solely by us. Stock offered as introduced by others is suspicious.

VAUGHAN'S SEED STORE,

New York. CHICAGO.

"JACQUEMINOT" CARNATION

WILL BEAR INSPECTION.

Read up that ad. in AMERICAN FLORIST of January 18th. Send for samples and circular. Orders filled strictly in rotation. Rooted Cuttings ready Feb. 20th.

PRICE, per dozen $2.00; per 100 $10.00; per 1000 $80.00.

TERMS: Cash with Order. PETER FISHER & CO., ELLIS, Norfolk Co., MASS.

Rooted Cuttings.

VERBENAS—25 good kinds, 75c. per 100; $6.00 per 1000.

CARNATIONS, leading varieties—L. McGowan, Grace Wilder, Lamboru, Portia, Tidal Wave, J. J. Harrison, Daybreak, Edna Craig, Grace Battles, G. Gate, etc.

CHRYSANTHEMUMS, 50 good cut flower varieties—Golden Wedding, Good Gracious, Roslyn, Ivory, Jessica, H. E. Widener, Domination, M. Wanamaker, etc.

COLEUS—Verschaffeltii, Golden Bedder, etc., $1.00 per 100; $8.00 per 1000.

GIVE US A TRIAL ORDER.

Price List on application.

EVENDEN BROS.,
WILLIAMSPORT, PA.

DAYBREAK, NANCY HANKS And CARTLEDGE.

NOW READY.

FINE, CLEAN, HEALTHY STOCK. SPECIAL PRICES to large buyers of these splendid Carnations.

Address H. E. CHITTY, Paterson, N. J.

CARNATION CUTTINGS.

BEST VARIETIES.

ESSEX HEIGHTS FLORAL CO.,
BELLEVILLE, N. J.

CLEMATIS.

I have choice lot of nice, well rooted, one year plants, very suitable for potting now; these will make fine strong plants by sales time, grown in cold house and treated same as H. P. and other roses, in variety, Jackmanni, Duchess Edinburg, Henryii, C. Lovelace, Fairy Queen, Lady Neville, Gem, P. Alexandra and others, $1.50 per doz.; $12 per 100. Two year in var. $3 per doz.; $20 per 100.

F. A. BALLER, Bloomington, Ill.
Mention American Florist.

VERBENAS, MAMMOTH, perfectly clean, strong plants, $2 per 100. Transplanted Cuttings, $1.00 per 100. Rooted Cuttings, $6.00 per 1000. All to color. Cash.

W. B. WOODRUFF, Florist, Westfield, N. J.

The Best Carnation in the Market.

THE ADELAIDE KRESKEN

Which was originated in 1891, and flowered in the same year, is conceded by all to be the prettiest Carnation ever grown. Strong grower, free from rust, is 2 ft. high, stiff stem, good calyx, and the flower (of a beautiful rosy pink color) averaging three inches and over.

A VERY FREE BLOOMER. In addition to recovering the Best Seedling Prizes at Cincinnati, O., Club Certificate at Springfield, Mass., and Milwaukee, Wis., Hunt Prizes, Indianapolis, Ind., it has received Certificates of Merit at the American Florists' Society, St. Louis, Mo.; also the best vase of pinks at St. Louis, Mo., and Certificate of Merit at Toronto. The undersigned begs leave to submit the following exceedingly low prices for Rooted Cuttings, which will be ready March 1st, 1894: $2.00 per doz.; $10 per 100; $45 per 500; $80 per 1000.

Cash must accompany all orders. Address all communications to

PETER HERB, Mt. Healthy, Hamilton Co., O.

Daybreak Carnation

A visit from several prominent florists of the State, has convinced me that I have the healthiest stock of the above beautiful carnation in this State. Before leaving my establishment they left orders for Daybreak at $2.50 per 100, and $20.00 per 1000.

I shall have, about Feb. 5th, 50,000 well Rooted Cuttings at the following prices:

$2.50 per 100; $20.00 per 1000.

Terms strictly cash. My customers will please take notice that I cannot accept personal checks. Satisfaction guaranteed.

FRED SCHNEIDER, Wholesale Florist,
ATTICA, Wyoming Co., N. Y.
Mention American Florist

ROOTED CUTTINGS OF CARNATIONS

For Immediate Delivery.

Large stock on hand; free from rust or other disease. Satisfaction guaranteed. Send for price list.

JOS. RENARD, UNIONVILLE, Chester Co., PA.

ROOTED CUTTINGS.

Chrysanthemums AND Carnations.

Write for list and prices. Prices to suit the times.

Address J. G. BURROW, Fishkill, N. Y.

COLEUS.

A large stock, in 75 varieties, including the very newest kinds.

ROOTED CUTTINGS, in 30 to 40 varieties, at $6.50 per 1000 by express; in 20 varieties, at $1.00 per 100 by mail.

Golden Bedder (true), at $10.00 per 1000; **Verschaffeltii, Golden Verschaffeltii, Mrs. I. D. Haight** and other yellows at $8.00 a 1000. **NEW KINDS**, including some of the most handsome ever offered for sale, in 10 varieties, at $2.00 per 100 by mail.

STOCK PLANTS, ordinary kinds at $3.00 per 100; Verschaffeltii and yellows, at $4.00 per 100.

Cash with Order. Safe delivery guaranteed.

CARNATIONS.

ROOTED CUTTINGS of new and leading kinds.

We make a Specialty of **BUTTERCUP** and **STANLEY**, of which we have a large stock. $5.00 per 100; $45.00 per 1000. Plants all in prime condition, and an inspection solicited.

Send for circular of both **Coleus and Carnations.**

W. R. Shelmire,

. . . AVONDALE, PA.

SWEETBRIER

Received 1st Premium for "best seedling of any color" at Phila., Nov. 7, '93. Color between Daybreak and Wilder.

Flowers brought $5.00 per 100 wholesale, at J. R. Freeman's, Washington, last winter.

"I like its color better than Daybreak."
EDWIN LONSDALE,

"Sweetbrier is all that can be desired."
W. A. MANDA.

Rooted cuttings, $10 00 per 100; $80.00 per 1000. Delivery to begin February 1, '94.

VIOLET LADY CAMPBELL.

ROOTED RUNNERS, $3.00 per 100; $25.00 per 1000.

Send for price list.

EDW. SWAYNE,
KENNETT SQUARE, PA.

4 NEW CARNATIONS
FOR 1894.

UNCLE JOHN, white; **THE STUART**, scarlet;
E. A. WOOD, pink variegated;
GOLDFINCH, yellow edged pink.

$10.00 per 100; $75.00 per 1000. Ready April 1st.

Get our 1893 varieties from **Headquarters.** We have extra fine stock of Wm. Scott, (the most profitable pink carnation grown); Mme. Diaz Albertini, Ellz. Reynolds, Richmond, and all the others of our set.

Do not forget to order some Major Bonnaffon, the most perfect Yellow Chrysanthemum ever introduced for show as well as market purposes.

Send for price list.

F. DORNER & SON, La Fayette, Ind.

Carnations.

Field plants all sold.

Orders solicited for early delivery of **ROOTED CUTTINGS** in varieties suitable for summer blooming.

C. J. PENNOCK,

The Pines. **KENNETT SQUARE, Chester Co., PA.**

50,000 Carnations.

ROOTED CUTTINGS READY.
NO "RUST."

SEND FOR LIST. . . .

Wm. Swayne,
P. O. Box 226. **KENNETT SQUARE, PA.**

CARNATIONS AND VERBENAS.

ROOTED CUTTINGS.

We have a large stock of Daybreak, Puritan, Edna Craig, Aurora, McGowan, Nellie Lewis, and other leading varieties. Also immense stock of Mammoth Verbenas.

Send for prices on what you want. Catalogue ready about January 15th. Send for it.

VICK & HILL, Rochester, N. Y.

CARNATIONS.

My list is not a big list but it is a mighty good list, and the cuttings are equally good. I would like to quote figures to you on any of the following varieties. In writing please state how many you will want of each variety. **Daybreak, Lizzie McGowan, Silver Spray, Grace Darling, Aurora, Portia, Edna Craig, Fred Dorner, J. R. Freeman, Golden Triumph.**

Annie Pixley and Helen Keller.

PIXLEY is one of those beautiful light pinks, with a fair sized flower and good, strong calyx. With ordinary culture stems can be cut twenty inches long. The flower is a model in form, and the growth is strong and healthy.

KELLER you know all about, they are both sure to make good paying varieties for cut flowers.

Pixley per 100, $12.00; per 1000, $100.00.
Keller per 100, $12.00; per 1000, $90.00.

Verbena Lancaster Beauty.

Decidedly the prettiest Verbena that grows, novel as well as beautiful and sells at sight.

Price, per 100, $2.00.

PANSIES.—I can still supply a few of those seedling plants at $5 00 per 1000, or 75 cts. per 100. The same good strain I always have.

No list published and terms are cash before shipping or C. O. D.

L. B. 496. **ALBERT M. HERR, LANCASTER, PA.**

IN BLOOM
The new and beautiful Fancy Carnation
"HELEN KELLER"

We extend a cordial invitation to Carnation growers to come and see it growing and blooming. This grand new variety must be seen to be appreciated. It is undoubtedly the

GREATEST NEW CARNATION UP TO DATE!

It is healthy and productive. In form, size and elegance, nothing can approach it. Two houses filled with this sterling novelty are worth going many miles to see—one at Summit; one at Chestnut Hill.

COME AND SEE IT GROWING.

Orders booked now and filled strictly in rotation, commencing March 15, '94. **Strong Rooted Cuttings, $3.00 per Dozen; $12.00 per Hundred; $90.00 per Thousand.**

EDWIN LONSDALE,
CHESTNUT HILL, PHILA.

JOHN N. MAY,
SUMMIT, N. J.

"COME AND SEE THE BOYS"
—AND—
THE YELLOW CARNATION BOUTON D'OR.

After growing this variety for the past three winters we are convinced that it is the best Yellow Carnation ever introduced.

WHAT WE CLAIM:—That it is decidedly a good, strong grower and free bloomer; color a beautiful yellow penciled with dark carmine. That it is of the best form and fully as large as Buttercup. That the calyx is perfect, the stem long and stiff, and the foliage possibly better than that of any other carnation.

PRICE, $2 per Doz.; $10 per 100; $75 per 1000. ROOTED CUTTINGS READY MARCH 1, 1894.

Orders filled in strict rotation. Come and see it grow and be convinced. Only one hour from New York City.

Dailledouze Bros., Flatbush, L. I., N. Y.

GRAND CARNATIONS

ROOTED CUTTINGS.

	Per 100	Per 1000
WM. SCOTT, fine clear pink.	$5.00	$40.00
GOLDFINCH, yellow, edged pink, strong, healthy, very free.	10.00	75.00
HELEN KELLER, white marked pink	12.00	90.00
ANNIE PIXLEY, light pink, fine . .	12.00	90.00
UNCLE JOHN, large, fine white . . .	10.00	75.00
THE STUART, brilliant scarlet, good.	10.00	75.00
E. A. WOOD, pink variegated, fine. .	10.00	75.00
DORNER'S SET OF 1893.	5.00	40.00

Daybreak, Edna Craig, Tidal Wave, Thos. Carlledge, Silver Spray, Emily Pierson, Puritan, Nancy Hanks, McGowan, and all the other leading varieties.

LARGE STOCK READY NOW.

Send for prices.

GEO. HANCOCK & SON,
GRAND HAVEN, MICH.

CARNATIONS.

Rooted Cuttings, from flats or pots, leading cut flower varieties. Send for price list.

VERBENAS.

Rooted Cuttings.....$1.00 per 100; $8.00 per 1000
Stock Plants..... 3.00 per 100; 25.00 per 1000

PANSY SEED—The well known Perfection strain. This mixture is the best the market produces.

VERBENA SEED—NEW LARGE FLOWERING. This strain gives a greater per cent. of large flowers, the largest variety and best colors of any known. Send for price list, free.

C. E. ALLEN, Brattleboro, Vt.

When writing to any of the advertisers on this page please mention the American Florist.

CARNATIONS

Rooted Cuttings, Now Ready.

	Per 100	Per 1000
DAYBREAK	$3 00	$25 00
BUTTERCUP	4 00	35 00
PURITAN	2 00	15 00
SILVER SPRAY	1 50	10 00
LIZZIE McGOWAN.	1 50	10 00
GRACE WILDER	1 50	10 00
PORTIA	1 50	12 00

Cash with order. 10c. per 100 extra when ordered shipped by mail.

Send for wholesale price list of Rooted Cuttings and Plants.

JAMES HORAN, Florist, Bridgeport, Conn.

CARNATIONS.

Strong, healthy, well rooted cuttings now ready.

SAMUEL J. BUNTING,
Elmwood Ave. and 58th St., PHILADELPHIA, PA.

CARNATIONS

Ready February 15th.

DAYBREAK.....$2.50 per 100
SILVER SPRAY, McGOWAN, HECTOR, LADY EMMA, GARFIELD, PORTIA, TIDAL WAVE.....$2.00 per 100

Stock free from disease. Order now or you wont be in it.

LAKE GENEVA FLORAL CO., Lake Geneva, Wis.

Foreign Notes.

Chrysanthemums Mrs. L. C. Madeira and Mrs. Jerome Jones are very highly spoken of in the *Journal of Horticulture.*

As showing the mildness of the season in Great Britain up to New Years it is stated that in Dunkeld, Perthshire, strawberries were picked through December and on New Years day outside, and many rhododendrons, primroses and violets were blooming.

The following price list of certain flowers, popular at this season in our own markets, which prevailed at Covent Garden, January 3, may be of interest to our readers. It is somewhat remarkable that the prices quoted are nearly the same as similar goods brought in this country at the same date: Callas 8 to 12, carnations 3 to 6, chrysanthemums 1 to 4, eucharis 8 to 12, Roman hyacinths 1 to 1.50, lily of the valley 1.50 to 4, poinsettias 8 to 16, tulips 1.50 to 4, orchids 6 to 25, lilacs per bunch .87 to 1.50.

Croton Russelli is a distinct variety recently certificated by the Royal Horticultural Society. It is rather dwarf in habit. The leaves are bronzy green, richly veined and mottled with red and yellow.

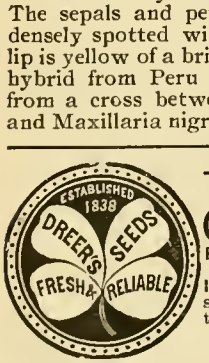
Mr. Henry Cannell, head of the firm of Cannell & Sons, seedsmen, of Swanley and Eynsford, England, has received from the Academy of Science and Arts, Brussels, the diploma and membership of that institution, which has been conferred for useful invention, commerce and the common good.

Verbascum Weidemannianum, one of the novelties of 1894, is a handsome plant from Kurdistan. It grows to a height of two and a half feet, branching freely and producing a quantity of indigo or lilac flowers one to one and a half inches in diameter.

In a recent number of the *Gardeners' Chronicle* Mr. Geo. Nicholson, of Kew, gives a most interesting account of Rhododendron Catawbiense at home on Roan Mountain, Western North Carolina and Eastern Tennessee. Mr. Nicholson was impressed by the grandeur of the scenery in this locality, and by its botanical wealth, it being the home of many choice shrubs grown in British gardens.

Richardia Rehmanni, the pink flowered calla sent out as a novelty this year, is a native of Natal. It is described as resembling the dwarf R. æthiopica compacta in size and growth, the spathe four inches long, with a tail like tip nearly an inch long, dull rose with a few lines of green outside and rose purple inside.

Lycaste Imschootiana, recently exhibited by Messrs. Linden at Brussels, is described as very handsome and distinct. The sepals and petals are pale yellow, densely spotted with crimson, while the lip is yellow of a brighter shade. It is a hybrid from Peru and is said to result from a cross between Lycaste Skinneri and Maxillaria nigrescens.



TRY DREER'S GARDEN SEEDS,

Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.

HENRY A. DREER, Philadelphia, Pa.

Mention American Florist.

Sphagnum Moss.

65c. per bale in car lots; 70c. per bale in less than car lots. F. o. b. Mather. Cash to accompany small orders; usual terms on large orders. Good sized bales and moss of good quality.

G. A. MARVIN, Mather Wis.

Why Buy from

BAYERSDORFER?

BECAUSE

He handles goods of only the best

QUALITY.

When your order is received it is filled

PROMPTLY.

You get just what you order, and at

FAIR PRICES.

If you are not already his customer

TRY HIM.

If you try him once, you are sure to

STAY.

His address is

H. BAYERSDORFER & CO.,

56 N. 4th St.,

PHILADELPHIA, PA.

☞ WHOLESALE ONLY. . . .



WHITE DOVES

FOR FLORISTS.

Largest and finest stock in the United States. Write for prices to

S. J. RUSSELL,

850 Montgomery St., Jersey City, N. J.

FOR SALE BY:—A. Hermann, F. E. McAllister' Reed & Kellar, N. Steffens, New York; W. C. Krick, Brooklyn, N. Y.; H. Bayersdorfer & Co., Phila.; J. M. McCullough's Sons and H. L. Sunderbruch, Cincinnati, O.; J. M. Gasser, Cleveland, O.; D. B. Long, Buffalo, N. Y.; J. C. Vaughan, Chicago; Wisconsin Flower Exchange, Milwaukee; Wm. Ellison, St. Louis; Ed. S. Schmid, Washington, D. C.; G. W. Currey & Co., Nashville, Tenn.; T. W. Wood & Sons, Richmond, Va.; U. J. Virgin, New Orleans, La.

ROOTED CUTTINGS. Per 100

Alternantheras, Versicolor, Rosea nana, Aurea nana, Tricolor and P. Major	$.50
Achyranthus of sorts	1.00
Coleus of sorts	.50
" best new and old	1.00
Parrots Feather, Fuchsias	1.00
Mexican Primroses, 3 kinds	1.00
Heliotrope	1.00
Fittonia, red veined, $2.00; silver veined	1.50

PLANTS.

Alternantheras, full of cuttings	3.00
Begonias, assorted; Lantanas, assorted	4.00
Fuchsias, ass't; Heliotrope, ass't $3.00 and	4.00
Abutilons, assorted	4.00
Echeveria glauca $2.00 and	3.00
" Extensa globosa, 6 to 12 in. across 25 & 50c. ea.	
Achyranthus, assorted	3.00
Coleus, assorted $2.00 and	3.00
Hibiscus, assorted	4.00
" Schizopetalus	6.00
Anthericum picturatum per dozen, 75c.	

ROBT. S. BROWN & SONS,

Box 99. KANSAS CITY, MO.

Mention American Florist.

CYCLAMEN GIGANTEUM. | PRIMULA CHINENSIS.

Good plants from best seed.

A. S. MacBEAN, Lakewood, N. J.

MAIL LOCK THE DOOR BEFORE THE HORSE IS STOLEN. *DO IT NOW.*

JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

Supplies of all Kinds, such as Immortelles, Cape Flowers, paper pressed Hartford and Maidenhair Ferns, Wheat Sheaves, Flower Baskets, Pot Holders, Plant Stands, Fern Dishes, etc., etc.; all quoted in our beautifully and richly illustrated new Trade List mailed free. Also

Metal Designs, the best winter cemetery decoration, in rich assortment of tasteful designs: Wreaths, Crosses, Anchors, Hearts, etc., in green or white foliage.

Cycas Leaves, (Sago Palm), natural prepared, equal to fresh cut in appearance, according to size at 40c., 45c., 50c., 60c. and 75c. each.

August Rolker & Sons,

136 & 138 W. 24th St., P. O. Station E. **New York.**



Florists' Pins

Glass Heads, in Black or White.

PRICES:

1,	1½,	2,	2½,	3,	3½,	4 inches,
50c,	75c,	$1.00,	$1.25,	$1.50,	$1.75,	$2.00 per 1000

For Sale by

August Rolker & Sons, New York.
Wm. Elliott & Sons, New York.
H. Bayersdorfer & Co., Philadelphia.
N. F. McCarthy & Co., Boston.
E. H. Hunt, Chicago.
J. C. Vaughan, Chicago.
Huntington Seed Co., Indianapolis, Ind.
W. Ellison, St. Louis.
E. W. Crook, San Francisco.
J. A. Simmers, Toronto, Ont.
Edw. Mullin, Kingston, Ont.

AUG. F. BRABANT, Manufacturer, 54 Warren Street, NEW YORK.

Mention American Florist.

MARSCHUETZ & CO.,

Florists' Supplies,

23 & 25 N. 4th St., PHILADELPHIA, PA.

Send for Catalogue.

ERNST KAUFMANN & CO.

Florists' Supplies,

113 N. 4TH STREET,

PHILADELPHIA, PA.

HUNTINGTON SEED CO.

Florists' : Supplies,

66 E. WASHINGTON ST., INDIANAPOLIS, IND.

Standard Flower Pots, Dried Grasses, Fancy Baskets Metal Designs. Trade Catalogue mailed free.



Water Lilies

Finest stock of Egyptian and American Lotus, and hardy Nymphæas in the country. Lowest prices. Our new N. Superba is the best known aquatic in fish culture. Several thousand Water Hyacinths at $2.50 per 100. If interested in this line write us, we can save you money. Geo. B. Moulder, Lily Park, Smith's Grove, Ky.

Always mention the American Florist when writing to advertisers.



WINNER OF THE "Columbian Medal"

—FOR—

BEST WHITE SEEDLING,

—AND—

FIRST PRIZE . . .

For best 50 plants, Single Stem Whites, at Chicago, where it competed against Ivory and other standard varieties of equal merit.

FIRST PRIZE . . .

For best Vase of Ten Blooms at Indianapolis, and a

CERTIFICATE OF MERIT . . .

At the Chrysanthemum Exhibition of the Rhode Island Horticultural Society.

MARIE LOUISE is a marked improvement as a grower, which it has proven the past season, where plants were grown among other varieties, it taking the lead in every case, and as to stem and foliage, it is simply perfect.

The flower, when **"Well done,"** measures from seven to eight inches in breadth and same in depth, its great depth being the marked feature, and when first opening, petals are incurved, and when open, reflexing closely around the stem, interlacing and building up full to the center by October 20th, a plumy globe. The accompanying cut is ⅙ natural size. See illustration of single stem plants in AMERICAN FLORIST, November 9th, 1893.

Orders booked now, and will be filled in rotation after March 1st, 1894.

PRICE, good strong plants, 50c. each; $5 per doz.; $35 per 100.

R. WITTERSTAETTER,

SEDAMSVILLE, Cincinnati, O.

CHRYSANTHEMUMS

Rooted Cuttings.

I have 3,000 now ready to come out of sand bed. Such varieties as

JESSICA, IVORY, PRES. SMITH, E. G. HILL, HICKS ARNOLD, GOLDEN GATE, MRS. IRVING CLARK, MRS. A. J. DREXEL, JOS. H. WHITE, MARVEL

and fifty other good varieties, at $2.00 per 100. No order filled for less than $2.00. No less than five of each kind.

Also Rooted Rose Cuttings.

W. W. COLES, Kokomo, Ind.

CHRYSANTHEMUMS

—AND—

CARNATIONS.

Send for trade list.

NATHAN SMITH & SON,

167 W. Maumee St., ADRIAN, MICH.

STOCK CHRYSANTHEMUMS.

Pres. W. R. Smith, best pink 1893	each	40c
The Queen, best white 1893	"	50c
Niveus, fine white	"	40c
Golden Wedding, extra yellow	"	35c
A. T. Ewing and Alba Venus	"	25c
And a host of standard sorts	"	15c

BROWN & CANFIELD, Springfield, Ill.

NEW CHRYSANTHEMUMS.

SPECIALTIES: Including The Queen, Niveus, Mrs. F. L. Ames, Golden Wedding, Judge Holtt, and Good Gracious. Twelve plants for $1.00.

NOVELTIES: Including The World, White Eagle, Monarch of Ostrich Plumes, Silver Waves, and Pascha. Fourteen plants for $1.00.

GENERAL LIST: Including many new varieties. Sixteen plants for $1.00.

Now ready for delivery. Send for catalogue.

M. B. LITTLE, GLENS FALLS, N. Y.

Mention the American Florist when writing to advertisers on this page.

IN THE FRONT RANK!

NEW WHITE CHRYSANTHEMUM

"MUTUAL FRIEND"

It is sure to be a prize winner and a leading variety for '94.

FIRST PRIZE and CERTIFICATE of MERIT MASS. HORT. SOCIETY, '93

Orders booked now for March delivery, 50c. each; $4.00 per dozen. At these prices all should try it. We know it will please. Send for descriptive circular.

MANN BROS., Randolph, Mass.

New Chrysanthemum, MRS. J. GEO. ILS,

A CALIFORNIA SEEDLING.

Flowers sent from San Francisco to the Chicago Show awarded a MEDAL.

A grand white, of remarkable substance, size and depth of flower. See Illustration in AMERICAN FLORIST of November 16th. The very vigorous habit, and our large stock of this novelty, enables us to assure the trade of good plants, and to guarantee safe arrival. To be sent out the 1st of March, 1894, at the following prices to the trade:

75 cents each; $7.50 per 12 plants; $14 per 25 plants; $25 per 50 plants; $40 per 100.

ORDERS BOOKED NOW BY

JOHN H. SIEVERS, 25 Post St., SAN FRANCISCO, CAL.

CANNAS. CHRYSANTHEMUMS.

The best only, at lowest trade prices. Catalogue No. 15 on application.

T. H. SPAULDING, Orange, N. J.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Hard Time Prices.

STOCK PLANTS.

GEO. W. CHILDS, WABAN, MRS. L. C. MADEIRA, VIVIAND-MOREL, V. H. HALLOCK, JESSICA, J. C. VAUGHAN, AMI HOSTE, DIANA, at $1.00 per dozen.

Cash with Order.

SOUTH SIDE FLORAL CO., Springfield, Ill.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

The Single Pipe System.

I was much interested in the remarks made by your St. Louis correspondent, R. F. T., on the single pipe system as seen by him at Mr. W. Hucke's, at Belleville, Ill. I don't know to whom the credit is due for first suggesting this mode of piping greenhouses. I got my idea of it from the manager of the firm that furnished me my boilers, and he said it was the first time he had ever used it in heating greenhouses, although in common use in heating dwelling houses all over the country.

This is the fourth year I have had the system in successful operation and I am more than pleased with the way it works. I am satisfied that if our brother florists knew how simple and economical it is there would be a more general application of its principles than now. Some of our craft who visited Mr. Dale's place at Toronto during the seventh convention will doubtless remember my calling their attention to this system and my explaining how it could be applied to his plant that was just then being piped. He, however, with the majority of the florists present, were rather skeptical about it, and I presume piped his new houses in the old way.

I consider it the best way to pipe houses for these reasons: First—you do not require a lot of expensive valves; all that is necessary is a cap with small air cock at end of each pipe; you can then use one or as many as needed to keep the house at proper temperature, and in this way a great saving of fuel is attained. Second—its simplicity; there is nothing to get out of order; each pipe runs independent of the others and if not wanted to work you simply close the air valve at end when steam is down, and the pipe then being full of air of course cannot be full of steam, and there is the whole thing in a nut shell.

As to the distance this single pipe system may be used, I have just stepped off eighty paces through two houses, being something like two hundred and forty feet long, and I find no difficulty in the circulation, so distance does not seem to make any difference. THOS. FRANKS.
Champaign, Ill.

Piping.

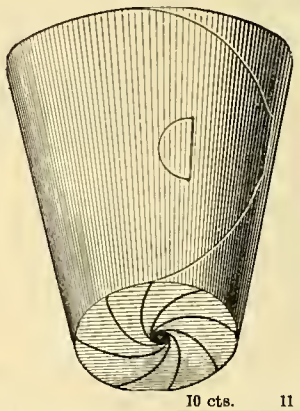
ED. AM. FLORIST:—How many feet of 2-inch hot water pipe shall I use in a double span house 14x60 feet to maintain a temperature of from 55° to 60° in zero weather? G. A.

Not knowing the pitch of house, whether the sides are partly glazed or otherwise constructed, or whether there are one or two gables exposed, it is impossible for us to tell the amount of pipe needed to heat the house named. If your correspondent will take the surface feet of glass exposure in the house and allow 1⅔ lineal feet of 2-inch pipe for each 3 feet of such surface, and ascertain the number of surface feet of board sides or other material than glass, allowing 1⅔ lineal feet of the same size pipe for each 10 feet of such surface, these two amounts added will give him the number of feet of 2-inch pipe required to maintain a temperature of 60° in the house in zero weather. This is on the basis of the open tank system. LINCOLN PIERSON,
Sec'y Lord & Burnham Co.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

NEPONSET FLOWER POTS

of Waterproof Paper, light, durable, unbreakable and cheap.



Tomato Growers have used them with success and proved their appreciation by repeated orders.
Cabbage Growers have tried them and duplicated their orders.
Market Growers of Verbenas, Alyssum, Coleus and other plants, which do not shun moisture, have used them extensively in repeated seasons.
Recommended for light and safe packing of tender and valuable plants, for the marketing of Ferns, Dutch Bulbs, Lily of the valley and the like.
Cost about 40 per cent less than earthen pots, and weight considerably lighter, thus saving in first cost and freight.

For Price List and further particulars address

Wholesale Agents:
AUGUST ROLKER & SONS, Station E, New York.
R. & J. FARQUHAR, - - - - Boston, Mass.
Who furnish samples, by mail, postpaid, on receipt of

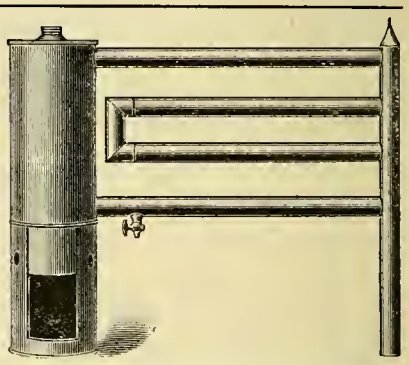
	10 cts.	11 cts.	14 cts.	17 cts.	22 cts.	40 cts.	60 cts.
For 1 dozen	2¼-in.	2½-in.	3-in.	3½-in.	4-in.	5-in.	6-inch pots.

F. W. BIRD & SONS, Sole Manufacturers, EAST WALPOLE, MASS.

GETTING COLD.

HAVE YOU A HORSE AND WAGON, IF SO YOU WANT OUR NEW WAGON HEATER.

It pays for itself in less than one week's time if you take into consideration the valuable time you lose in packing your flowers; also paper, string, cotton batting, etc.; and still they freeze sometimes.
We guarantee that our heater will warm a wagon box 3x8, up to 50° in the coldest weather, so that plants can be delivered without being wrapped up. It is made of Galvanized Iron, and weighs 40 pounds when boxed. It will require ½ gallon of gasolene per day. Price, $10.00 Terms cash. Parties desiring it sent C. O. D. must remit enough to pay charges both ways.



WILLIAMS & PULT,
1624 & 1626 Broadway, WEST SUPERIOR, WIS.



Do Your Grapes Rot?

Pears blight, crack or spot? Are your Apples, Plums, and Cherries imperfect? Powell's

COPPERDINE

Is a sure preventive. It is guaranteed to stop all Fungus Diseases; prevents Rust on Carnations and Black Spots on Roses.

For sale by all Seedsmen, 50c. a quart, $1.50 per gallon. Used largely diluted. Special prices in large quantities to Florists and Nurserymen. *Send for circular.* Powell's Mildew Mixture prevents Mildew on Flowers and Fruits, and Rust on Oats,

POWELL'S COPPERDINE

W. S. POWELL & CO., Baltimore, Md., U. S. A.

D. H. ROBERTS,

159 and 161 S. Fifth Avenue, - NEW YORK,

NATURAL GAS MADE GLASS,

FOR ROSE HOUSES, CONSERVATORIES, ETC., ETC.



Kills Mildew and Fungus Growth. What does?

GRAPE DUST.

Sold by Seedsmen.

THE PERFECT DRAINAGE
BENCH TILE
For circulars, etc., address
W. P. WIGHT, Upland Greenhouses,
Send your business card. MADISON, N. J.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

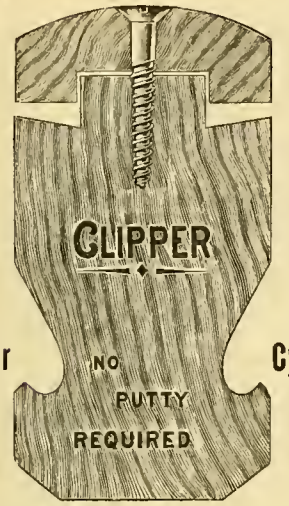
CUTS!



WOOD ENGRAVING,
PHOTO-ENGRAVING,
WAX ENGRAVING,
ZINC ETCHING,
HALF-TONE,
DESIGNING.

MANZ & CO.,
183 Monroe Street, CHICAGO. **ENGRAVERS.**

LOCKLAND LUMBER CO.



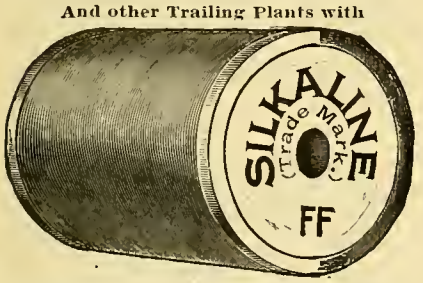
MATERIAL FOR
GREENHOUSES.

Send for Circulars and Testimonials.

Address **LOCKLAND, O.**

STRING SMILAX

And other Trailing Plants with



JOHN C. MEYER & CO.,
13 Otis St., (off Summer), **BOSTON, MASS.**
For sale by all leading Florists' Supply Houses.

CATALOGUE PRINTING. ELECTROTYPING.

Done with expert ability for Florists, Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.
. . . HARRISBURG, PA.

Increase Your Business

by fostering an interest in plants and flowers among the people in your vicinity. You can best do this by getting subscribers to

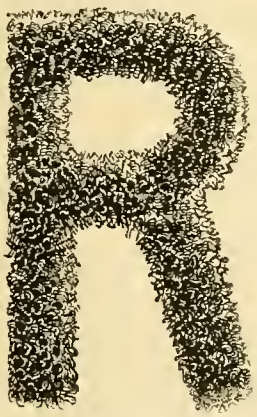
GARDENING . . .

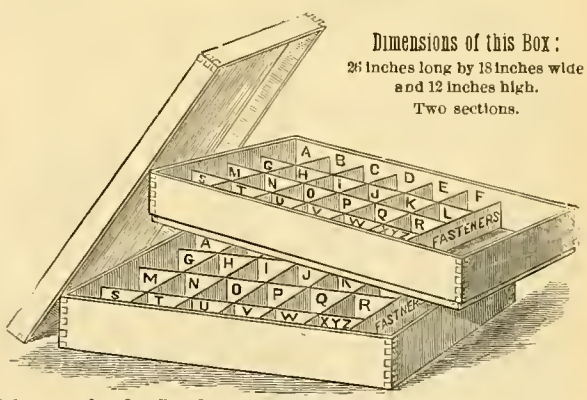
which tells people how to get the most satisfaction out of their gardens, and stimulates them to enlarge and extend their gardening operations.

$1.00 A YEAR is the subscription price of this paper, which is issued twice a month, is handsomely and truthfully illustrated, is thoroughly practical, absolutely free from wind and gush and grinds no axes for anyone.

SPECIAL LOW RATE to florists who will act as agents. We want an agent in every city and town in America. Write for terms now to

THE GARDENING CO.
Monon Building, CHICAGO.





Dimensions of this Box:
26 inches long by 18 inches wide and 12 inches high.
Two sections.

With an order for 500 letters, we furnish a box made of wood, nicely stained and varnished, such as is represented in the cut.

BOSTON FLORIST LETTER CO.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1½-in. and 2-in. 2.00 per 100. Patent fastener with each letter.

OUR NEW SCRIPT LETTER, $4.00 per 100.

N. F. McCARTHY, Treas. & Mangr. | Address 13 Green St., **Boston, Mass.**

Address all correspondence to 1 Music Hall Place.

We have a new **FASTENER** which we consider a decided success. Any customers having old style fasteners which they wish to exchange, can do so without additional cost by writing us.

AGENTS.

A. Rolker & Sons, New York.
Marschuetz & Co., 25 N. 4th St., Phila., Pa.
F. E. McAllister, 22 Dey St., New York.
A. D. Perry & Co., 33 Warren St., Syracuse, New York.
A. Herrman, 415 E. 34th St., New York.
Ernst Kaufmann & Co., 113 N. 4th St., Phila.
H. Bayersdorfer & Co., Philadelphia, Pa.
A. C. Kendal, 115 Ontario St., Cleveland, O.
J. A. Simmers, Toronto, Ont., Agent for Canada.
E. H. Hunt, 79 Lake St., Chicago, Ill.
Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.
H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.
T. W. Wood & Sons, 6th and Marshall Sts., Richmond, Va.
Jas. Vick's Sons, Rochester, N. Y.
C. A. Kuehn, 1122 Pine St., St. Louis, Mo.
D. B. Long, Buffalo, New York.
C. F. Huntington & Co., Indianapolis, Ind.
Z. De Forest Ely & Co., 1024 Market St., Philadelphia, Pa.
Portland Seed Co., 171 2d St., Portland, Ore.

These Letters are handled by all the Wholesalers in Boston.

VICTORY! VICTORY! VICTORY!

The only Certificate of Merit awarded for ventilating apparatus at the St. Louis Convention was to the

POPULAR STANDARD VENTILATING MACHINE

The florist's friend in working and prices.



No repairs for 5 years. no chains to break as is the result with others.

Opens Sash uniform on 100 foot houses. A new device.

Send for Catalogue and Estimates.

E. HIPPARD, Youngstown, Ohio.

J. N. STRUCK & BRO.

Manufacturers of

• CYPRESS •
Greenhouse Material,

LOUISVILLE, KY.

Send orders for . .
CLEAR CYPRESS
Greenhouse Material
from bottom of gutter up.
Correspondence solicited. Estimates cheerfully furnished.
LYMAN FELHEIM, ERIE, PA
Mention American Florist.

— OUR —
SASH LIFTER AND HINGES

will do the work and cost you less than any other. Send your name and address and we will mail you description and price.

BAY STATE HARDWARE CO.
272 Freeport Street BOSTON, MASS.

TO TAKE PLACE OF WIND MILLS

HOT AIR PUMPING ENGINES

A Windmill

Is unreliable because it depends upon the elements for its power; hydraulic rams also depend upon favorable conditions and waste as much water as they secure. Steam pumps require skill and hand pumps demand labor and time. The

DE LAMATER-RIDER OR DE LAMATER-ERICSSON Hot-Air Pumping Engines

are especially designed for pumping water, and from shallow streams or any kind of well. They are simple, safe and reliable, require no steam and have no valves. They require very little heat to operate them, and can be arranged for any kind of fuel.

Send for illustrated catalogue to

THE DE LAMATER IRON WORKS,
87 South Fifth Av.,
NEW YORK, N. Y.

GLASS

which is absolutely perfect for modern greenhouse construction.

ROCK BOTTOM PRICES.

Send for Estimates. Satisfaction Guaranteed.

REED GLASS CO.,
65 Warren Street, and 46, 48 & 60 College Place,
NEW YORK CITY.

News Notes.

WESTERLY, R. I.—S. J. Reuter sails from New York January 24 on a tour through England and Germany.

CRAWFORDSVILLE, IND.—Krause & Crist are having a conservatory built adjoining their down-town office on E. Main street.

CINCINNATI, O.—Trade has shown a decided improvement during the last few days and stock (especially roses and carnations) are well cleaned up.

WILMINGTON, DEL.—The firm of Sparks & Hannam has been dissolved, Mr. Sparks buying out Mr. Hannam's interest and continuing the business under the name of Chas. E. Sparks, Jr.

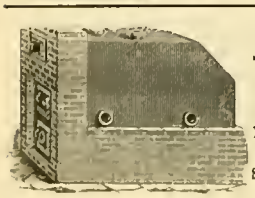
ALLEGHENY CITY, PA.—The establishment of Ludwig & Richter, 16 Federal street, is in the hands of the sheriff. The store is closed and the place advertised for sale. Besides executions, judgments were entered only to the amount of $100.

PROVIDENCE, R. I.—The annual meeting of the Rhode Island Horticultural Society was held on January 17. The following officers were elected: President, Joseph H. Fanning; vice-presidents, L. W. Russell and Thos. K. Parker; secretary-treasurer, Chas. W. Smith; librarian, Thos. K. Parker; botanist, Prof. W. W. Bailey.

BILTMORE, N. C.—The vast estate at this place owned by Mr. George Vanderbilt is now being planted with a large collection of trees and shrubs, the idea being to establish an arboretum to rival Kew. The estate is 9,000 acres in extent, and a driveway twelve miles in length leads up to the residence. This driveway is bordered by plantations and is intended to be one of the special features of the estate. Many trees and shrubs too tender for northern latitudes succeed, such as Abelia rupestris and A. floribunda, Ficus stipulata, Arbutus Unedo, Lapageria rosea, Thea Bohea and the Japanese bamboos. Last winter was unusually severe, but Araucaria imbricata stood 9° of frost without injury. January 12 the abelia, Forsythia intermedia, Kerriopteris mastacanthus and others were showing foliage. Rhododendron Catawbiense is indigenous to this district and makes a superb show during the flowering season. The propagator and gardener, Mr. C. D. Beadle, has a large nursery, where he is growing and testing the various trees and shrubs before permanent planting. The estate is like a community in itself, and is under the general management of Supt. Chas. McNamee. It is intended to rival some of the famous estates of the Old World, though naturally it will require years of development yet.



GREENHOUSE HEATING
AND VENTILATING.
Superior Hot Water Boilers.
JOHN A. SCOLLAY,
74 & 76 Myrtle Ave., Brooklyn, N.Y.
☞ Send for Catalogue.



GREEN-HOUSE
HEATING,
MYERS & CO.
1518 & 1520 S. 9th St.,
PHILADELPHIA.
Send for catalogue and price list.

H. M. HOOKER COMPANY,
57 and 59 W. Randolph Street, CHICAGO.
NATURAL GAS MADE GLASS,
FOR GREENHOUSES.
Write for latest prices.

"Standard" Flower Pots.
As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address
The Whilldin Potterv Company,
BRANCH WAREHOUSES: 713, 715, 717 & 719 Wharton St., Philadelphia, Pa.
Randolph Ave. and Union St., Jersey City, N. J.
Jackson Ave. and Pearson St., Long Island City, L. I.

STANDARD FLOWER POTS
Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.
A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.
We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.
Send for price list and samples and we know you will give us an order.
SYRACUSE POTTERY CO. OFFICE: 403 North Salina Street, SYRACUSE, N. Y.

STANDARD FLOWER POTS.
OLD RELIABLE MAKE OF
ELVERSON, SHERWOOD & BARKER.
Write for Catalogue and Price List.
PITTSBURGH CLAY MFG. CO. New Brighton, Pa.

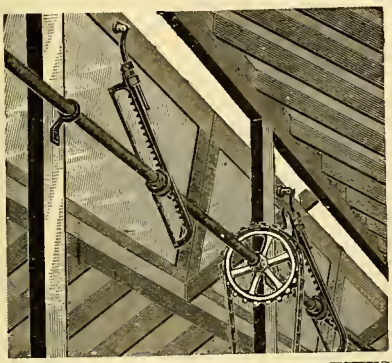
STANDARD FLOWER POTS
Our new **Pottery,** new **Machinery,** the very **best Clay** in the **Country,** and our new **Patent Kilns,** all combined, make the **best Standard Pot in the market.** Send for price list.
PARMENTER MF'G COMPANY,
GEORGE MESSINGER, Manager. East Brookfield, Mass.

FRENCH GLASS For CONSERVATORIES, ROSE HOUSES, Etc. Etc.
VANHORNE, GRIFFEN & CO.,
Importers of PLATE and WINDOW GLASS. Manufacturers of BENT GLASS and FRENCH MIRRORS.
131-133-135-137 FRANKLIN STREET, NEW YORK.
Note—Imported Glass is used in the best grade of Greenhouse building

ESTABLISHED 1866.
FLORISTS WIRE DESIGNS
MANUFACTURED BY
N. STEFFENS
335 EAST 21ST ST. NEW YORK.

SEE HERE BROTHER FLORIST!

Aren't you tired going through your houses two or three times a day year after year and lifting your ventilating sash one at a time and propping them up with sticks or pots, with a chance of having sash blown off and broken glass to pay for? If you are



We have got just the thing you need, the **NEWEST** and **BEST** thing out. "The New Departure" for about half the cost of the old style. Send for Descriptive Catalogue to

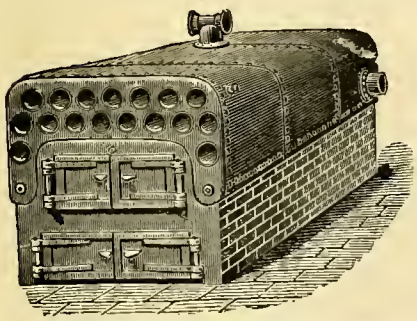
J. D. GARMODY, Evansville, Ind.

ESTABLISHED 1854.

DEVINE'S BOILER WORKS.

THE FLAT TOP TYPE

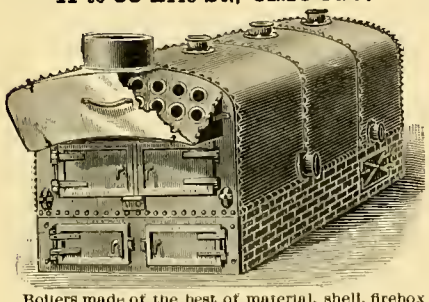
Wrought Iron Hot Water Boilers



Capacity from 350 to 10,000 feet of four-inch pipe.
SEND FOR NEW LIST.

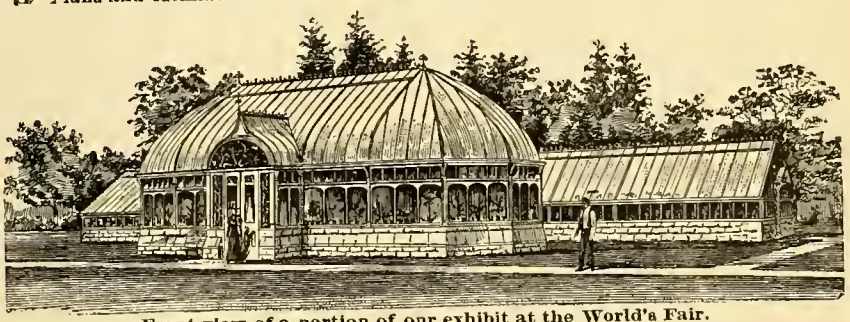
FRANK DAN BLISH, Att'y,
OFFICE, 189 STATE STREET.
WORKS, 56th & WALLACE STREETS,
CHICAGO.

Kroeschell Bros. Co.
IMPROVED
Greenhouse Boiler,
41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

LORD & BURNHAM CO.
Horticultural Architects and Builders,
STEAM AND HOT WATER HEATING ENGINEERS.
☞ Plans and estimates furnished on application.

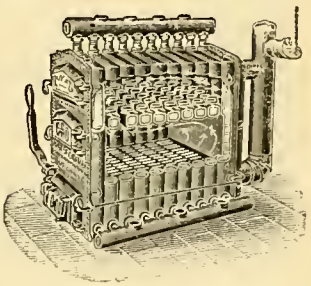


Front view of a portion of our exhibit at the World's Fair.
. . . SEND FOUR CENTS POSTAGE FOR ILLUSTRATED CATALOGUE. . . .
LORD & BURNHAM CO., Irvington-on-Hudson, N. Y.

SOLD ON THEIR MERITS AND NOT ON THEIR ANTIQUITY.

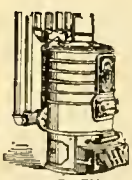
ROYAL HEATERS

THE RIGHT KIND of BOILER for a GREENHOUSE.



HART & CROUSE,
UTICA, N. Y.

Gurney



GURNEY.

HOT WATER HEATERS AND RADIATORS FOR HEATING Dwellings, Public Buildings, Etc. BY HOT WATER CIRCULATION.

Best for Greenhouses.

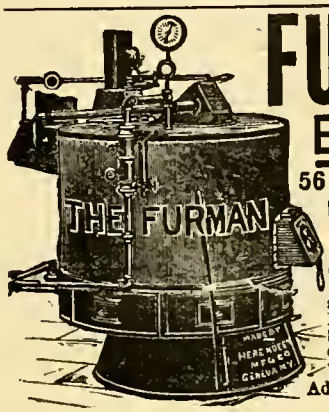
Our illustrated book "How best to Heat our Homes" gives the reason why. We send it free.

THE BEST IS CHEAPEST.

Gurney Hot Water Heater Co.
HEAD OFFICE:
163 Franklin St., Boston, Mass.
BRANCH OFFICE:
59 Wabash Ave., Chicago, Ill.
SELLING AGENCIES:
Johnson & Co., 71 John St., New York.
J. C. F. Trachsel, 246 Arch St, Philadelphia.



DOUBLE CROWN.



FURMAN BOILERS
Economical — Substantial — Safe.
56 STYLES AND SIZES—BURNS HARD OR SOFT COAL.
Modern Hot-Water Heating

These Boilers have a high reputation for Staunchness, Durability and Safety, and are **GREAT COAL SAVERS.** Minimum Friction and Maximum Velocity only obtained by **VERTICAL WATER CIRCULATION.** Send for new 150-page book giving full particulars and a great deal of valuable information on modern Heating and Ventilation, with plans and tables for correct hot-water work. Mailed free.
Address **HERENDEEN MFG. CO., 26 Vine Street, GENEVA, N. Y.**

Index to Advertisers.

Adv. Rates, etc.....564
Allen C E.....569
Baller F A.....568
Barnard W W & Co.....567
Bayersdorfer H & Co..570
Bay State Hdw Co.....573
Bird F W & Son 572
Boston Letter Co 573
Brabant Aug F.....570
Brackenridge & Co.....563
Brague L B.....563
Brown R S & Sons.... 570
Brown & Canfield.....571
Bunting Samuel J.....569
Burns & Raynor.....565
Burpee W Atlee & Co..566
Burrow J G.....568
Carman R W.....567
Carmody J D..... 575
Chitty H E.....568
Coles W W.....571
Corbrey & McKellar...564
Dailledeuze Bros.....569
Deamud J B & Co.....565
De Lamster Iron Wks.573
Devine's Boiler Wks...575
Dillon J L.....567
Dorner Fred & Son.....569
Dreer H A.....570
Elliott W H.....564
Ellison Wm.....564
Ely Z De Forest & Co..566
Essex Heights Floral Co.....568
Evenden Bros 568
Felheim Lyman.....573
Felthousen J E.....567
Fisher Peter & Co.....568
Forstermann L 563
Frowert & Smith.....564
Griffith N S..... 567
Gurney Heater Co.....575
Hail Ass'n.....570
Hammond Benj.....572
Hancock & Son. 569
Hart James.....565
Hart & Crouse.....575
Hartford H E.....564
Herb Peter.....568
Herendeen Mfg Co.....575
Herr Albert M.....569
Hews A H & Co.....574
Hill E G & Co.....567
Hippard E.....573
Hitchings & Co.....576
Hooker H M Co..... 574
Horan Edw C.....565
Horan Jas.....569
Hulsebosch Bros.....566
Hunt E H..... 565
Hunt M A.....562 567
Hunter Frank D.....565
Huntington Seed Co...570
Jennings E B.....567
Joosten C H.....567
Kaufmann Ernst & Co.570
Kennicott Bros Co.....565
Kroeschell Bros Co....575
Kuehn C A..... 564
Lake Geneva Floral Co569
La Roche & Stahl.....564
Little M B.....571
Leckland Lumber Co...573
Long Dan'l B.....564
Lonsdale Edwin.....569
Lord & Burnham Co...575
McCarthy N F & Co.....565
McFarland J H.....563
McFarland J H Co.....573
MacBean A S.....570
Manda W A.....567
Mann Bros.....571
Manz J & Co.....572
Marschuetz & Co.....570
Marvin G A.....570
May John N.....562 563
May L L & Co 562
Meyer John C & Co....573
Michel Plant & Bulb Co 567
Millang Bros.....565
Moffatt G J.....566
Moninger Jno C 576
Moulder Geo B.....570
Myers & Co.....574
Nanz & Neuner.....562
National Plant Co.....564
Neff L L.....563
Oelschlg A C.....563
Ouwerkerk P.....568
Parmenter Mfg Co.....574
Pennock C J.....569
Penneck Sam'l S.....564
Pierson F R Co.....563
Pittsburg Clay Mfg Co.574
Powell W S & Co.....572
Quaker City Mach Co. 576
Randall A L 565
Reed Glass Co.....573
Reinberg Bros..... 565
Renard Joseph.....568
Roberts D H.....572
Reehrs Theo..... 565
Roemer Fred... 563
Rolker A & Sons.....570
Rupp John F.....568
Russell S J.. 570
Sander & Co 563
Schneider Fred.....568
Scollay John A. 574
Shelmire W R.....569
Sheridan W F.....565
Siebrecht & Wadley....563
Sievers John H. 571
Situations. wants.....562
Smith Nathan & Son...571
South Side Floral Co...571
Spaulding T H.....571
Steffens N.....574
Stemmler T W.....562
Streby S O 563
Struck J N & Bro.....573
Sunderbruch H L.....564
Sunset Seed & Plant Co566
Sutherland Geo A.....564
Swayne Edward..... 569
Swayne Wm..... 569
Syracuse Pottery Co...574
Toole Wm.....567
Tricker Wm..... ..567
United States Nurs's..564
Van Herne Griffen & Co 574
Vaughan J C.....568
Vick & Hill.....569
Weathered's Sons T W.576
Weeber & Don.....566
Welch Bros 565
West Geo W..... 567
Whilldin Pot Co 574
Wight W P.... 572
Williams & Pult..... 572
Wittbold Geo. ge.....567
Witterstaetter R.....571
Wolf E E 576
Wood Bros.....568
Woodruff W B.....568
Young Thos Jr.....569
Zirnglebel D.....567

CHARLOTTE, N.C.—The North Carolina Floral Association was organized here in January and will hold a meeting in July, after which they will go to the S. A. F. convention at Atlantic City in a body. The officers are: J. VanLindley, president, Pomona; E. J. Bush, vice-president, Morganton; J. B. Dahlborn, secretary, Charlotte; J. W. C. Deake, treasurer, Asheville.

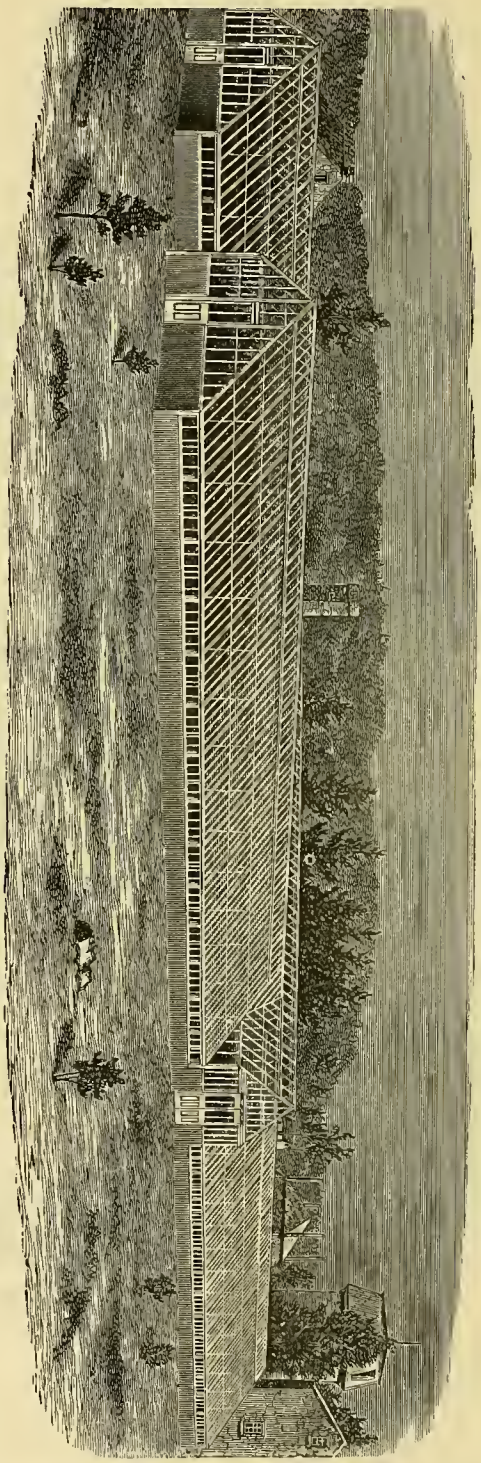
CYPRESS GREEN HOUSE MATERIAL

CLEAR CYPRESS SASH BARS

HOT BED VENTILATING SASH

JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

HITCHINGS & CO.
ESTABLISHED 1844.
GREENHOUSE HEATING AND VENTILATING,
HORTICULTURAL ARCHITECTURE AND BUILDING.



COMMERCIAL ROSE AND GREENHOUSES, CONSERVATORIES, PALM HOUSES, ETC., CONSTRUCTED WITH POSTS, RAFTERS, PURLINS, GUTTERS, SILLS, COLUMNS AND BRACKETS, ALL OF IRON; AND GLAZING BARS, VENTILATING SASH AND SIDING OF WOOD. ERECTED COMPLETE, OR THE STRUCTURAL IRON WORK SHIPPED READY FOR ERECTION WITH PLANS, DETAILS AND FULL INSTRUCTIONS TO ENABLE LOCAL MECHANICS TO COMPLETE THE SAME.

SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUES.

IRON BENCH FRAMES FOR SLATE OR WOOD TOPS.

HITCHINGS & CO., 233 Mercer Street, NEW YORK.

THOS. W. WEATHERED'S SONS,
INCORPORATED.
Horticultural Architects and Hot Water Engineers
Send for Catalogue, enclosing 4 cents in stamps.
No. 244 Canal St., NEW YORK CITY.

THE CHAMPION
Automatic Ventilator.
The cheapest, easiest to operate, and by far the best machine in the market. Don't buy a Ventilator until you have seen my illustrated descriptive circular, which will be sent you free, giving prices, etc. Also Champion Soil Pulverizer and Sifter.
Address, E. E. WOLF,
Box 114. SPRINGFIELD, O.
Mention American Florist.

EVANS' IMPROVED
CHALLENGE
VENTILATING
APPARATUS
Write for Illustrated Catalogue.
QUAKER CITY MACHINE WORKS, Richmond, Ind.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

Goodell Mass Agri Col 15 Dec 93

THE AMERICAN FLORIST

A WEEKLY JOURNAL FOR THE TRADE

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. IX. *CHICAGO AND NEW YORK, FEBRUARY 1, 1894.* *No. 296*

THE AMERICAN FLORIST

Copyright 1894, by American Florist Company.
Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY
322 Dearborn Street, Chicago.

Subscription, $1.00 a year. To Europe, $2.00.

Address all communications to

AMERICAN FLORIST COMPANY,
P. O. Drawer 164, CHICAGO.

Eastern Office: 67 Bromfield St., Boston.

SOCIETY OF AMERICAN FLORISTS.

J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. Tenth annual meeting at Atlantic City, N. J., August, 1894.

CONTENTS.

Carnations—Chicago notes 577
—Notes 578
—Two new 578
Miscellaneous seasonable hints 578
Floral design (illus) 579
Phrynium variegatum 579
A cyclamen disease 579
Hot water under pressure 580
Wedding bouquets (illus) 580
New York 580
Philadelphia 581
Boston 581
Chicago 582
Buffalo 582
St. Louis 582
Washington 583
Montreal 584
Toronto 586
The seed trade 588
Catalogues received 590
News notes 590
Fresh information about the violet 592
A wonderful discovery 594

HATBORO, PA.—Chas. C. Royce will erect a commercial violet house the coming spring and will enter the ranks of the professionals.

NEW HAVEN, CONN.—Mrs. Robt. Arnold has opened a retail florist store on Chapel street, which makes a very pretty addition to the trade.

SANTA CRUZ, CAL.—Thomas Thompson has presented 200 fine palms to the county exhibit at Sunset City. They will be planted along one of the avennes of the fair grounds.

GRAND HAVEN, MICH.—It is now Geo. Hancock & Son instead of simply Geo. Hancock. The son, Mr. J. G. Hancock, has long had charge of most of the business details and the change in name will make no difference in the management.

DO YOU WANT an alphabetical list of the chrysanthemums in commerce in America, with class and a brief accurate description of each one, and synonyms noted? You will find such a list in our trade directory and reference book.



Chicago Carnation Notes.

J. T. Anthony at Bowmanville has several houses of carnations which are of more than usual interest from the fact that they contain quite a large number of new varieties and others that while not, strictly speaking, new sorts, are very little known around Chicago.

Of pink varieties we find the following: Wm. Scott, Mme. Diaz Albertini, Edna Craig, Mrs. Elizabeth Reynolds, Grace Wilder and Daybreak.

Wm. Scott is at the present writing in full bloom and makes a splendid show. The plants are strong and vigorous and covered with buds and flowers, which are borne on long stems. Not a ragged flower could be found on the bench and the color runs remarkably even. Mr. A. picked a bunch of twenty-five blooms which we examined very closely, but so even did the color run that we couldn't detect the slightest difference of shade. In Mr. Anthony's opinion this is pre-eminently the grower's carnation in this color. It proves a great producer with him, flowers large and of good keeping quality.

Mrs. Elizabeth Reynolds Mr. A. regards as equally good; in some respects he prefers it even to Scott. The flower is somewhat larger and of a deeper pink. This shade is, in our opinion, not quite as pleasing as the first sort mentioned, and the stems appear a little weaker. This sort does not look its best just now as it has been flowering freely since early fall, and is now pretty well off crop.

Mme. Diaz Albertini is a splendid carnation. We never before saw such fine blooms. In color this variety is somewhat darker than Daybreak, and so far as we could see there was no tendency to fade. The flowers, though very large and double, don't show any tendency to burst, and although the flower opens but slowly, owing to its great size, the blooms develop in perfect shape. The stems are strong and considering the weight of the flowers this is an important point. In addition to size and beauty the flower is very sweet scented. Mr. Anthony says of this variety: "One of the finest varieties for a grower who caters to a first class trade. It will not produce the number of blooms that Scott or Mrs. Reynolds will, but the flowers always bring fancy prices. I get $1 a dozen for them when commoner sorts sell at 50 cents. The habit of the plant is also good, growth strong and compact and perfectly healthy."

Edna Craig looks poorly. The plants are badly diseased and dying out in spots. The flowers show a tendency to fade badly.

Grace Wilder is doing very well. It flowers freely and plants are healthy, but blooms burst and more than one half are badly streaked and faded out. Mr. A. will not grow it any more.

Daybreak looks exceedingly well. It flowers freely, and the blooms are large, well formed and of very good color. This sort, by the way, is spoken of very highly by every grower we have seen. We haven't found a poor looking lot anywhere, but it appears to do best when grown in rather heavy soil, although we have seen it do well in a light sandy soil too, but there is a marked difference in the color and keeping qualities of the blooms, those grown on heavy soil being much deeper in color and texture firmer.

In whites we find Lizzie McGowan, White Wings, White Dove, Blanche, Hinze's White and Silver Spray.

White Wings is regarded by Mr. A. as first on the list. With him this variety has done exceedingly well, the blooms are apparently free from bursting the calyx, of good size, borne on long stems and pure white. The flower is not very double, but the petals are thick and firm. A good keeper.

Lizzie McGowan stands second. The plants look healthy but not very strong. The wiry growth of this variety don't give it a very robust appearance at its best. The flowers are of fair size but have a tendency at present to split.

White Dove, as seen at this establishment, is one of the most vigorous growers. The plants at the present writing are looking as fine as any one could wish, but so far have yielded no returns. The few flowers that are open are badly split and not any better than the old DeGraw, of which variety it reminds one very much in both flower and habit though a taller grower.

Blanche, one of Fred Dorner's latest, has done very little up to the present time, but Mr. A. thinks he has not given it a fair show yet, and reserves his opinion on this sort for the present.

Silver Spray is badly diseased, the only bench which looks really poor. Mr. Anthony thinks the reason for this is that the soil he is using on his benches is too heavy for this variety.

Hinze's White looks well, but is of course very late and will be discarded in the future.

Of the reds the best is Portia. We have seldom seen better or larger blooms of this sort. If Portia could always be depended on, as we see it here, there could be little fault found with it.

Garfield looks thrifty, but will have to go.

Tidal Wave is doing well. This sort

can always be depended on. As a producer it certainly has few equals.

Spartan is somewhat in the way of Tidal Wave in form and color of bloom, but does not cluster so much and the stem is longer. Mr. A. speaks very highly of it and recommends it as a free bloomer and quite early.

Richmond is somewhat like the above in color but larger. The flowers are borne on very long stems and have a tendency to blast. It has not proved satisfactory.

In dark crimsons he has Wabash and Anna Webb. The latter is regarded the best of the two.

Two of the striped varieties are grown —Doctor Smart and Western Pride. Both sorts are looking well, but Western Pride shows some crippled flowers and more or less of the buds are blasted. This variety did extremely well all through the fall. Both varieties sell very well on the market.

All the above varieties are grown on benches in a heavy rose soil.

R. J. Donovan, at Rosehill, has three houses in carnations. The majority of these are Portia, partly grown on benches and partly on solid beds. There is no apparent difference in the condition of the plants. This variety is looking splendid at present, being in full crop, flowers quite large and of fine color.

Garfield is just showing the first blooms. This variety has been largely grown by Mr. D., but Portia is so much better with him that Garfield will have to go.

One bench of Silver Spray is not doing quite so well. There are a good many buds and flowers on the plants, but these are badly affected by rust.

A small batch of Tidal Wave is also doing poorly—the first lot of this variety we have seen this season that is not doing well. Mr. Donovan thinks his soil does not suit this sort, as he has tried it several years with the same result.

A few plants of J. J. Harrison show some fine bloom. This variety has been grown here for a number of years. The flowers always sell well at fancy prices, but it is late in coming into bloom and pays but poorly to grow.

The stock here is grown in a rather sandy loam.

Stollery Bros., at Argyle Park, show two houses of carnations which in general excellence would be difficult to surpass.

Lizzie McGowan easily takes first honors. We have never seen better or as good blooms of this popular sort as are produced here. The plants don't look so very robust, and it seems all the more remarkable that these should produce such fine blooms. McGowan occupies but part of a bench and Silver Spray takes up the other part.

Silver Spray did you say? Can it be possible? We must confess that we are not an expert on carnations, but thought we could recognize Silver Spray when we saw it. We should have named it any thing almost rather than Silver Spray, and if we did not have the most indisputable evidence we should still insist that this was some other sort. The flowers, *every one*, are as much striped with color as Western Pride or J. J. Harrison, and if it wasn't for the form of the flower we should sooner take it for one of these two varieties than what it really is. There are two different lots of these plants grown in separate houses, but in the same kind of soil. The stock came from widely different localities. One lot was bought from one of our local growers while the other was obtained from a New Jersey grower. Both lots look exactly alike. The plants are as strong, healthy and vigorous as it is possible for them to be and are flowering freely. The cause of the color is undoubtedly in the soil. This variety, as well as all the others except McGowan, is planted in a composition of ⅔ rather heavy rose soil and ⅓ of the soil found on this place, a black muck. This locality was originally a slough, and since being drained has been devoted to celery growing for a number of years.

McGowan, as noted above, is grown in an unmixed rose soil and does not show the slightest trace of pink. But a dozen or so of McGowan were planted with Silver Spray in the mixed soil, and in these we also notice streaks of pink, though not near so pronounced as in the other variety.

Tidal Wave is unusually fine here, both in size and color, and so is Daybreak.

Portia looks well, but when seen growing in company with such varieties as the above looks rather insignificant. X.

Carnation Notes.

We will soon begin to prepare our plants for next season and the methods we have followed heretofore with success are the best for us to follow again with the additional knowledge we have obtained by another year's experience.

If you have been successful planting them in flats do not pot them because some one else says so. If you have good results from planting or potting them into rich soil don't use poor soil because some one tells you it will be better. These remarks may seem superfluous but I have seen quite a number of failures just from this method of taking another man's advice as gospel and not using a little judgment in regard to local conditions. If you have not had good results perhaps the following may be of some use to you.

In the first place pot your plants as soon as they are fairly well rooted, as it weakens them to be left in the sand too long. I say "pot" because with me they make better plants than those planted in trays, or beds, or on benches; although I have seen good results from all of these methods. In potting them several grades of soil should be used. For a variety like Lizzie McGowan a very rich potting soil can be used to good advantage as this variety will stand more liberal feeding than any other I know of. Don't use it so rich however, that the change from the pot to the field is too great or the result will be a check and you will have a lot of dead leaves on the bottom of the plant. Many of the failures with this variety are no doubt due to a non-recognition of the fact that it is a strong feeder, for where it is grown properly there is certainly no white that can hold a candle to it, at least I know of none.

These McGowan remarks will apply to all weak growing varieties. Take such sorts as Portia, Fred Dorner and that class; they can and should be potted into a poorer grade of soil and the very strong and rank growers as most of the new seedlings are should have quite a poor soil; by following this method up you will be able to secure more uniform plants and much better results.

If you have rust on the place keep a sharp lookout for it when potting and any plant that has the least speck of it is not worth potting up no matter if the cutting has cost you a dollar; throw it out or burn it. A good plan is to dip every cutting into the Bordeaux solution; this will wash off any rust spores that may be on the leaves and will act as a preventive by keeping any that may fall on the plants from taking hold.

After the plants are potted up do not stick them on a side bench where nothing else will do. Remember that as you treat your plants so will your plants treat you and it is far better to leave such places lie idle than to injure your next seasons crop of flowers. Put them where they can get the full benefit of the sun, and can be given the very best of ventilation.

A good temperature for these young plants is 50° to 60° during the day, the latter figure on bright days and not over fifty on dull cloudy days; for night from 45° to 50° is about right; but if the cuttings have been grown in a higher temperature it is well to drop gradually to the above figures, taking a week or two to do it in.

The same rule as applies to older plants in regard to watering applies to these young plants. The soil should not be too wet when they are potted up and then they should have a good watering and not again until they show signs of becoming dry. A. M. HERR.

Two New Carnations.

A box of carnations from F. Dorner & Son, Lafayette, Ind., recently received by us, included two of the latest novelties of the season of 1894, Goldfinch and E. A. Wood. Mr. Dorner has already a solid reputation for his many meritorious introductions, and these varieties assuredly will not detract from it. Goldfinch is a clear lemon yellow flower, slightly streaked and edged with carmine; in shape it suggests Albertini, having the same raised fullness of the center petals, and it is very double. Buttercup being a failure in so many western localities it is only fair to imagine that this new western yellow may be the flower many growers are looking for. E. A. Wood, the other novelty, is a large and shapely flower, in color bright delicate pink streaked and splashed with deeper rose pink, very fragrant and double and having a splendid stem and calyx.

Some other flowers in the same collection were Mme. Diaz Albertini, undoubtedly one of the most beautiful pinks yet introduced; Wm. Scott, which ranks with the best fancies in our market; Uncle John, a white of high merit, and The Stuart, a brilliant red, for which we may venture to prophecy future distinction. All were finely grown and representative flowers.

Miscellaneous Seasonable Hints.

From now until Easter your houses will be filled up with little chance of spreading out much. There are seeds to sow and cuttings to put in, which does not take up much room. Of plants wanted in the spring the seeds of which can be sown now there are mignonette, petunia, lobelia, maurandya and lophospermum. Mignonette does not transplant well, and a few seeds in a 2-inch pot, and afterwards thinned out to two or three of the best plants and then shifted into a 3 or 4-inch pot, make the best plants. Lobelia is seldom too early from seed. If you have sufficient stock from cuttings you will have much better plants for vases and baskets than the seedlings, but you don't always have them.

If you want a few gloxinias earlier than the main crop—middle of March is early enough to start them for that—put a few bulbs in 3-inch pots now and start



FLORAL DESIGN SENT BY THE DENVER FLORISTS' CLUB TO THE FUNERAL OF THE LATE AVERY GALLUP

in a night temperature of 55°. Water when first potted but keep them quite on the dry side after that until they have made a little leaf growth.

A few tuberous rooted begonias can be started at the same time and under the same conditions. Last year some vases and beds of begonias were highly satisfactory, especially towards the end of the season, and the bulbs that were started late did much the best.

If you have any Crozy canna bulbs resting in the cellar or under the bench get them up and divide and start growing. They will make fine plants by middle of May and the flowers will help greatly to recommend them. They need take up but little bench room for a month. I place them in three or four inches of sand in flats and put the flats on the pipes where the heat is not too strong. In a month they will have made a growth of five or six inches and can then be potted off.

This is a good time to rob your hydrangeas which are starting into growth of one or two cuttings off each plant for next year's supply. The sooner they are propagated the stronger the young plants will be when planted out. If you have not put in cuttings of cytisus do so at once. It is very slow when young. Racemosa is both a better color and a more compact grower than old canariensis.

You seldom have too much of that very useful drooping plant vinca variegated and green. The plants propagated in September will now be benefited by having their tops cut off and the cuttings will make just the right size plants for baskets, while the older plants if shifted into 3-inch and given a good bench will make fine long droopers by May.

There is no better time to overhaul your lælias than just now. The well known sorts anceps, autumnalis, Arnoldiana and albida are done flowering and should be resting, and can be given a new pot or basket without any check to the plant. If the material in the basket is very much decayed and the plants are not doing well take them entirely out and thoroughly wash the old peat off the roots and start again with fresh peat or sphagnum, and if you use the same old basket thoroughly clean that and be very sparing of water till the plants show signs of breaking. WM. SCOTT,

Buffalo, January 29.

Phrynium Variegatum.

Mr. Wm. R. Smith says that Phrynium variegatum is in his opinion destined to become a people's plant. He was forcibly struck with a house of this handsome plant when visiting Mr. Rob't Craig of Philadelphia recently. The plants were grown in a cool house, much to his surprise. He says they were a sight to behold and to admire. Two important discoveries have lately been made in reference to bringing this plant to its perfect state says Mr. Smith. First, grow it cool in winter; second, plant in shade in open ground in summer. The latter was demonstrated at the Botanic Garden in the summer of '92 and plants so treated were admired by many who were fortunate enough to see them in front of Mr. Smith's house during the S. A. F. convention. C. LESLIE REYNOLDS.

A Cyclamen Disease.

A cyclamen, as its name might not suggest, is ordinarily one of the most healthful of plants so far as fungous diseases are concerned. Within the last two months complaints have come to me of serious trouble with this highly prized ornamental plant. One large grower, for example, of it was obliged to throw away nearly his whole crop, having at present but a few specimens, and they not being in good health. This disease so far as it has been studied is confined to the foliage; but it may upon further investigation be found to infest the whole plant. The general appearance of the plant when infested with this fungous disease is easily described. Certain leaves, not necessarily the older and outer ones, turn of a dark color in ill defined areas, that is to say, when a leaf is beginning to show the presence of this fungus there will be a darkening of the most affected portion. After a while this diseased area will become dry and of a lighter color, and will exhibit a number of concentric rings of light and dark bands. The leaf at this place is of course dead and brittle, and upon touching it may break away, so that irregular holes are frequently met with in the leaves. There is no one portion of the blade that is more subject to attack than another; sometimes the upper third of the leaf will be thus blighted and the rounded tip curled under. Again the blotch may be midway between the tip and the right or left lobe at the base of the blade. Some leaves may have two or more of these diseased areas, and when such is the case by the spreading of the trouble the leaf is soon entirely ruined.

This disease, which appears to be unrecorded in the works upon parasitic fungi, is a member of the genus Phoma, and from what has been said above it is strictly of a fungous origin, and must be treated as such. It remains to be determined whether the bulbs and leaf stalks are also affected with this Phoma. Whether they are or not it is evident from a knowledge of the closely related fungi upon other plants, that this pest of the cyclamen is amenable to treatment with the ordinary fungicides. If those who are troubled with this leaf blight, after removing all of the leaves showing the darkened and dead patches, should use either the Bordeaux mixture or the ammoniacal carbonate of copper compound it would probably assist materially in checking the disease, and possibly eradicating it from the house.

The suggestion has come that it is the same as the violet disease. This does not seem to be probable. There are several diseases of the violet, and none of them so far as the writer knows has the microscopic characteristics of the Phoma of the cyclamen. As far as can be determined from the books upon diseases of plants there is recorded only one other cyclamen leaf parasite, and it is quite different in its appearance to the unassisted eye from the Phoma above

treated, and differs much more strongly when seen under the microscope.

Those growers of cyclamen who have little or more of this cyclamen blight would confer a favor upon the undersigned if they will kindly send a few specimens of the same for comparison and further study, and while the trouble is without question of a fungous origin, there are several points with regard to its life history that need further consideration. BYRON D. HALSTED.

Rutgers College, New Brunswick, N. J.

Hot Water Under Pressure.

Please inform me of the advantage of putting in hot water under pressure for greenhouse heating where boiler and piping are of sufficient capacity under the open system. I am told that the saving in fuel will be a consideration and that there is a gain in attendance.

Simcoe, Ont. H. H. GROFF.

Replying to your correspondent as to the merits of the pressure system over the open plan for heating greenhouses, we have both systems, also steam heating, here in practice, the two former for several years side by side, and I think the pressure system has several advantages over the gravity:

First, the pipes best suited to it are 2-inch regular gas or water pipe; this is all screwed together by threads so that any reasonably intelligent man can fit it up. It requires no brick piers to support it in the greenhouse as is the case with heavy cast iron pipe.

Second, its first cost, all things considered, is quite something cheaper, and in case of changes being necessary it is very much easier to make them than with heavy cast iron pipe.

Third, the difference in the amount of pipe required is 10 2-inch where eight 3½-inch cast iron pipes would be required. These can be more easily distributed over the house, as strips nailed to the posts supporting benches, etc. are all that is needed to carry them.

Fourth, where ample boiler capacity and a liberal amount of pipe is used, so that there is a reserve for all cases of emergency, quite a saving of fuel can be made in a season. It is also practical to use considerably larger boilers for this system, which means a lesser number of fires to look after. The attention, etc. in all other respects are about equal, which means in this particular, one system has no advantage over the other.

The special requirements of the pressure plan are a water tank, elevated high enough to give the desired pressure at all times, say from seven to fourteen pounds to the square inch, which means two feet elevation for each one pound pressure required. The larger the area to be heated the more pressure will be required to circulate the water rapidly. The more rise the pipes can have from the end nearest the boiler to the other extreme end the quicker will be the circulation.

Several in advocating this system of heating have advocated what is known as the "down hill" plan, which means elevating the flow pipes to the highest point as near the boiler as practical and then grading the pipes from there with a fall or descent all round the greenhouse back to the boiler. This we found to be a mistake, as the ends of the houses nearest the boiler were so much hotter than the further end, and we also found a considerable loss of valuable heat which meant more expense to get the necessary heat than should be.

After a year's trial we changed the whole system to running the pipes up hill to the extreme ends of the houses and bringing the returns back on the same grade and alongside of the flow pipes. This we found a great improvement in many ways. I know that many advocates of the "down hill" plan will dispute this, but "facts are stubborn things," and I do not want to open a discussion on this threadworn subject, but simply give the facts of the case as we have proved them here, for the benefit of your correspondent.

The first hot water arrangement for heating a greenhouse that I had anything to do with was on the pressure plan (*not down hill*). This was in my apprenticeship days, and I have good reason to remember it, for it came very near sending me to the "happy hunting grounds." This came about through the supply pipe from the tank to the boiler (a ½-inch pipe) getting stopped with sediment or something else which prevented the water feeding the boiler properly. The result was one cold evening while stoking, the boiler, which I noticed was boiling the water very fast, exploded. [It was generating steam for which there was no escape.] I was turned over very unceremoniously, and after wondering for a while whether it was myself or some one else there gathered myself together, for I had been jammed up into the corner of the stoke hole, the farthest extremity possible from the boiler, left after the combat with more bruises than my opponent got; however, I gathered myself together, crawled out of the stoke hole the best way I could and when I was able to investigate the trouble made up my mind that if I ever had anything to do with putting up a boiler the supply pipe would certainly be larger than half an inch or I would have nothing to do with firing it. Since that time I have had nearly forty years' experience in putting up and running all sorts, sizes, shapes and forms of boilers, have ridden saddles, fired cannons and stoked tubulars and nearly every other form, and with various successes and failures every means of circulation, coming eventually to the conclusion given above, which I hope may be of benefit to your correspondent and others wishing to erect hot water heating apparatus. JOHN N. MAY.

Set of Four Wedding Bouquets Tied With Narrow Ribbons and Flowers.

Each bouquet in this set is tied with one full piece (10 yards) of narrow ribbon to match the color of the roses. To these streamers at intervals are attached with bows of the same ribbons roses such as compose the bouquet.

The bride's bunch in the center, composed of Brides and lilies of the valley, is intended to be held in a position at right angles to the body so that the spray falls gracefully from the hand. The ribbons of this bouquet are tied with sprays of lilies. M.

New York.

The revival in the cut flower trade still continues. It is refreshing to see so much life in it and it reminds one of the "good old times." On Saturday, 27th, the scene in the wholesale establishments was most encouraging. American Beauties and fancy carnations were in special demand, and no sooner was a box opened which contained either of these desirable commodities than a score of hands were outstretched and the stuff melted away as by magic, while mutterings of disappointment were to be heard from those who got left in the distribution. Anyone who wanted to get a share of the desirable stock had to be on the alert and for the time being found no opportunity for either Corbett-Mitchell discussion or dice box manipulation.

A persistent effort is being made to keep the price of number one Beauties at 75 cents, but it is done with difficulty. It is worthy of note that the best selling Beauties to-day are not these selected specimens with three or four foot stems, but rather the third class blooms with stems twelve to eighteen inches, and which can be bought at 25 to 35 cents. The flowers on these are about as good as those on the higher priced stock, the only difference being length of stem, and this feature seems to have lost its importance of former seasons.

Meteors are also selling well. Those coming in from the F. R. Pierson Co. are the finest ever seen here in midwinter. There are also fine Bridesmaids and Brides coming in and they are readily sold, as is in fact all really good stock, but there is a large quantity of inferior stock, small, poor color, badly handled and otherwise undesirable which sells only because nothing else is to be had and then at miserable figures.

It is interesting to note the greediness with which the limited quantity of new and specially fine carnations is snapped up. Three to four dollars per hundred, and occasionally five dollars, is the price willingly paid for such stock, and the growers seem well satisfied with these results. Lily of the valley is the only flower in the so-called bulbous stock which is selling. Tulips must be extra good blooms with long stems and preferably pink in color to find a customer. Violets are good and abundant but excessive prices are not obtainable. There are a great many cattleyas and cypripediums in the market at present. Twenty-five to forty dollars per hundred is the prevailing price for cattleyas, and cypripediums are difficult to dispose of at ten dollars, an unprecedentedly low price. Lilacs seem to have lost their old time popularity and sell very poorly. Very little shipping trade is being done and the activity is confined to home demands.

The retailers all speak favorably of the situation and claim to be doing as well as they could expect. There have been a great many social events during the past week requiring floral decoration more or less elaborate, and this will no doubt continue unabated until Lent sets in, and possibly may not stop even then. The windows of the retail establishments are very attractive nowadays. One of the prettiest displays of this kind was seen recently in Thorley's window, the central attraction being three great rings composed of many hundreds of cattleyas and arranged so as to produce a most novel effect. Hand bouquets of pretty good size and rather loosely arranged are quite popular this winter.

At Mr. Hicks Arnold's conservatory on 84th street there is always something interesting and rare to be seen. A fine collection of lælias is just going out of bloom and at present a rich and varied display of cypripediums attracts the attention. These are Mr. Arnold's special pets, and among them he spends his spare hours. Just now among the rare hybrids blooming are Cypripedium Arnoldianum, the beautiful yellow C. insigne Sanderæ and C. Paris. The latter is in bloom for the first time and is the only specimen in



SET OF FOUR WEDDING BOUQUETS TIED WITH NARROW RIBBON AND FLOWERS.

this country. It is a hybrid between bellatulum and argus, color white, suffused with purple and heavily blotched with deep red. An interesting collection of seedling cypripediums is beginning to bloom for the first time. Among the other beautiful things now in bloom are Phajus Cooksonii and Vanda Lowii.

Philadelphia.

Although Lent has not set in and it is quite some time until Easter, the growers are speculating as to the price of lilies. In a little knot gathered in one of the stores the other day the lily question was being discussed and the probable price, when one said, "Well, I am not going to be caught napping this season; last year I held out for 15, as I undersood that was to be the price, and before I knew it almost everybody had been supplied at 12. I am going to sell my lilies for the best price I can get, but I am not going to have any left over by standing out for a high price to the detriment of my market." Another grower thought that bringing lilies in at this time interfered with their sale at Easter. Longiflorum and Harrisii were compared, and each variety was considered better by those growing them. Diseased bulbs and those infested with insects were thought to be the reasons for imperfect growth and foliage. although there is less of this blight reported than for several years. It was also said to take about six weeks in a medium temperature after the buds begin to develop to get them in flower.

Business has been quiet the past week, some days being very dull, calling to mind the first week of Lent. Next week promises to be better, there being a number of social entertainments, as well as the second assembly ball.

Good roses are scarce; the Brunners are all cut out for the present, and Beauties and Belles are in poor shape; 35 to 40 is asked for the best. There are still some Laings, which bring 25. All the other roses are in good supply at fair prices, the largest teas bringing 6 to 8, the medium, like Cusins, Hostes, Bennetts and Woottons 4 to 6, and Perles and Gontiers 3 to 4.

Carnations are plentiful and the price is nearing the dollar mark for marketable flowers, while the extra fine and fancy kinds bring $2 to $3. $7 is still asked for H. Keller. This is a fine variety, but we might also venture to suggest that $7 is also a nice little handful of money these hard times. Of course, we are told, the way to get a good price for carnations is to ask it, but it takes courage to ask a reasonable profit on carnations that cost from $7 to $12 per hundred; a little smelling salts to revive customers after hearing prices will have to be added to the florists' stock if these carnationists keep up their present pace. Daffodils are becoming quite plentiful, the price now being 3 to 5, according to quality. Other bulbous flowers are to be had in quantity; Romans and paper whites bring 2 to 3. Tulips are now good and can be had in variety for from 3 to 5. Freesia is abundant at from $1 to $1.50. Valley is still 4 for the best and is now very good. Smilax has never been so plentiful as this season and 15 is the top price for it, although for some extra fine 20 has been asked. Considerable has also been sold at from 10 to 12.

H. Kainey on 17th street has taken in a partner, Frederick Ehret, the uptown commission man being admitted to the firm.

Saturday night has become a club night at the alleys and quite a number of the boys are to be found there every Saturday evening enjoying themselves and giving each other points on pool or ten pins. In the match on Thursday last Crawford's team beat the Walker faction something over 100 pins. Crawford set a good pace for his men, making 527 pins in the three games.

Boston.

Good roses are selling well and the demand bids fair to continue brisk until Lent comes in or until the production is considerably increased. This condition of the rose market is undoubtedly owing more to the smallness of the cut generally than to any special increase in the consumption. As to price the figures obtainable for number one stock is fully as high as it has been at any time for years. Four dollars a dozen is the price with the best growers for their extra selected Mermets and Brides, while the ordinary cut of these varieties will bring not much more than four dollars per hundred. The Mermet houses at Waban Conservatories are in splendid condition and worth a trip of many miles to see. The same may be said of the houses in Lawrence Cotter's care, of which there are seven devoted to Mermets and Brides. While there are some American Beauties, Meteors, etc. grown in this section yet a good proportion of the number of these roses used here comes from New York. Some of the large retail dealers receive a considerable portion of their daily supply of roses from New York.

There are plenty of carnations and violets with no special rush for them unless of extra fine quality. Bulbous stock is everywhere, but with the exception of lily of the valley it goes very slowly. Tulips in pans are beginning to sell well, but as cut blooms nobody seems to care for them. Azaleas in bloom and cyclamens are seen in abundance in the florists' windows.

If anyone wishes to see a fine lot of cyclamens George Anderson's establishment at Milton is the place to go. No finer blooms have ever been shown, and many of the plants are miniature forests of flower buds. They will make a big

record at the spring exhibition in Horticultural Hall. Seeds are now beginning to come up for next season's stock. Mr. Anderson sows his cyclamen seed on finely broken charcoal in pans which have first been partially filled with shreds of dry cow manure gathered from the pasture. Roses, carnations and mushrooms are also well grown crops at this establishment.

The greenhouses of Justus Geist at Melrose were badly damaged by fire Friday night, January 26.

Chicago.

At the Florist Club meeting last Thursday evening President Hauswirth read a brief paper on floral arrangements. Referring to table decorations he said he preferred a low arrangement, not to exceed 12 inches in height, making it as graceful as possible with such a limitation in height. While there was a better chance to make a more graceful disposition of the flowers in a tall slender vase which would carry the flowers high enough not to obstruct the view across the table he believed that the diners should not be obliged to gaze toward the ceiling in order to view the flowers. He preferred pink flowers for evening dinners, as these look better under artificial light than those of most other colors. He always placed flowers in bowls wherever possible as the flowers keep much better than when made up into plateaus or similar arrangements. He felt that the growers for this market should endeavor to better supply the demand for foliage. He had noted that the tendency of demand was for fewer flowers, but of finer quality, in decorations, and an abundant use of foliage in all arrangements. He was sure that good carnation foliage would meet with ready sale at a profitable price if placed on the market.

The paper brought out a very interesting discussion, during which Mr. McAdams mentioned an order he had received for a decoration in which the only foliage to be used was that of the flower itself in every case. He believed that adiantums should never be used with such a large flower as the chrysanthemum, and that the safest plan was to always use the flower's own foliage where it was possible to secure it.

Mr. H. H. Hindshaw has been appointed professor of botany at the State University of Washington, at Seattle, and left for his new home last Thursday. The University will establish an arboretum and this work will be superintended by Mr. Hindshaw. Mr. H. has only recently returned from New York where he was married. His wife accompanies him to the Pacific coast.

Mr. W. A. Viberts was married January 25. We wish the couple every happiness.

Mr. Edgar Sanders has recovered from his long and severe illness and is about again, though he has not yet fully regained his old strength.

J. C. Craig has started business at 82 State street.

The first two days of this week were very brisk, all the commission men saying that they soon sold all their good stuff. Flowers are scarce in a good many cases, particularly in first-class grades. Good Beauties, which go for $4 to $5 a dozen, are really scarce; the cheap poor grades are not called for; Brides are scarce, and in brisk demand at $5 a 100; Perles and Niphetos of good quality are $3 or $4, but good Perles are comparatively scarce and there is a good call for all light roses. The first hybrids from local points were fine Jacqueminots from Stielow, which made their appearance last Monday; they are fine flowers, with good stems and clean handsome foliage, selling well at $25. The Niles Center Co. is also selling good lilac from the same grower, the purple variety, which has been coming in for a few days; it averages about 50 cents a bunch. Fine white lilac has been selling at $1 to $1.50 a dozen sprays; it is still scarce.

Carnations are not plentiful, and are going well. Daybreak and Scott sell at $2 to $2.50, with some extra blooms at $3. These two varieties are about the only fancies coming in. Scarlets are not plentiful. In bulb stock Romans are as dull and as plentiful as ever; a tremendous quantity is being grown still. Paper whites continue at a standstill. Daffodils go for $4 to $5, and vary much in quality. Valley is much more plentiful; $4 is about the highest, and much of it is sold for $2, fine quality too. The tulip market is very uncertain; in the main they sell but slowly. Red Duc Von Thol is really unsalable; Chrysolora goes better, and is said in some cases to be a first rate seller, but not in all. Chrysolora and Yellow Prince average about the same. The Klehm Nursery Co. is sending in some of the pink La Reine, the same as last year; they are a beautiful color, and bring $5. Violets are not equal to the demand and run from $1 to $1.50.

Smilax is selling much better than it did, in fact there is a healthier demand for all greens. The smilax ranges from $10 to $15; adiantum 75 cents to $1.50. With Lent beginning next week the florists' harvest seems likely to be a very short one, nor is it anticipated that Easter prices will run above those prevailing at Christmas.

Buffalo.

The condition of business is about the same as at the last report, viz., very slow. There is a fair counter trade all the time, but no occasion calling for an extra supply of flowers. I see by the latest health statistics that this is a particularly healthy winter and most everybody is stopping with us, so we are denied even that profitable part of the business to a large extent. Roses for the past week have been quite scarce, especially teas. Why this should be is hard to tell, for the usual chronic complaint of "No sun" certainly cannot be laid up against this winter. We have any number of bright mild days just now and have had for a month past, when usually at this season our glass is covered with snow and ice. I suspect it has been too mild and not enough occasion for good brisk firing.

Violets are coming in in large quantities and good quality. The finest are sent in by Messrs. Harmon & Burr of Darien Centre, N. Y. Carnations are in good supply. Daybreak and other new pinks have entirely placed that once popular variety Grace Wilder in the shade; few of it will be grown another year. Our store windows are now gay with tulips, daffodils and freesias, and the demand for bulbous stuff is quite fair at present.

Mr. Pettigrew of Lincoln Park, Chicago, who is making a tour of the principal parks of the country, gave us a call last week, which we greatly appreciated. We shortly afterward conducted him to our own park superintendent, Wm. McMillan, after which no doubt "flowers vs. no flowers in public parks" was ably argued out on both sides.

That festive youth, Peter Crowe, of Utica, accompanied by Mr. Fry of Rochester, visited our city two weeks ago and persuaded Mr. Long, E. I. Mepsted, the writer and some others that a visit to Mr. Fred Schneider of Attica would be the correct thing. We complied and on arriving there found Mr. Pridmore of Rochester ready for the fray. Mr. Schneider's extensive lot of glass is nearly all taken up with carnations, and a very large majority of these are Daybreak. A finer lot of this grand variety I have not yet seen. Hundreds of thousands of these fine blooms will be picked before the season is over. I looked for rust with every confidence of finding it, but in justice to Mr. Schneider I must say I was disappointed, for I did not find a speck on his entire place. After horticulture was disposed of and a good dinner, the bowling alley was inspected and we found no rust on that. This establishment is something unique. It is open to all good people, but it is not open to everybody. You can enjoy the freedom of a public place with the seclusion of a private party. Mr. S. has two fine alleys of regulation size. Many enjoyable games were played, but as Mrs. Schneider and Peter Crowe were chosen on the same side there was little show for the other side. This is an excellent place for the tired drummer or the weary florist to spend a day. Host Schneider will see all your wants provided for. W. S.

Jan. 29.

St. Louis.

Since last week we have been treated to a taste of genuine winter weather, the mercury reaching 11 below zero. The effect of the cold wave is seen in the market, violets being unattainable. The last shipments received from the south came frozen solid, and since then nothing has come in, owing to the plants at many of the shipping points having been served the same way as stock in transit, as they are grown in the open ground and lightly constructed frames. The home growers have been deterred at the same time from relieving the market owing to their not being able to get into their frames, and to make matters worse, there seems to be a run on violets.

Trade this week is much better than last. The cold weather has shortened up the supply of roses, which were already off crop and rather scarce, and has caused stock sent in to go with a celerity and cleanness that is delightful to behold in the light of the last three or four months' experience.

Lent comes early this season, and the opinions expressed by the various florists seem to tend towards its cutting no figure worth mentioning. Those located here longest say that its influence is felt less and less every season. Of course there are a great many persons who leave town and go south at that time, but their absence is compensated for by the increased shipping trade.

At the last meeting of the Bowling club the teams were re-divided, the first and last three on the list composing team 1; the second three highest and lowest compose team 2, and the middle six on the list composing team 3. A rule was also made awarding to the member making the lowest average for the series a leather medal, which must be worn on bowling nights under a penalty of a 25-cent fine. Teams 1 and 2 have already opened the series, number 1 having 112 more pins to its credit than number 2, which was handicapped by the absence of a member.

Number 2, however, won two of the three games played.

J. B. Deamud of Chicago was in town during the past week. R. F. T.

Washington.

Business the past week has been very good, keeping our store florists quite busy. Luncheons, teas and dinners were numerous among the society people. While the florists were kept busy there was but little money in it for the boys, as the decorations were mostly small affairs, requiring a good deal of work with as little material as could be used. From now to the close of the social season the florists expect to be kept busy. Several good orders are booked for next week.

The Gude Bros. say that this was as good a week for them as any during the time they have been in business (holiday weeks excepted). They are very enterprising young men. One of them looks after the greenhouses while the other devotes his entire time and attention to the elegant store on F street. They are cutting some fine Beauties, Mermets and La France. Considering how late they were in getting their new houses planted their stock is in remarkably fine condition.

Postmaster General and Mrs. Bissell gave a dinner last Friday night in honor of the President and Mrs. Cleveland and the Cabinet. The decorations were in violet and white. The center piece was of boxes of growing lilies of the valley extending nearly the entire length of the table, the edges of the boxes resting on asparagus placed on the white cloth, the box being hid with broad violet colored ribbon with asparagus falling gracefully over it to relieve the stiffness. The valley was flanked at either end of the table by boxes of growing violets. These were tied around with ribbon the same shade as the flowers. The tall silver lamps burned under shades of violet silk covered with white tulle encircled at the top with violets. In the finger bowls floated violets and valley. The corsages and gentlemen's bouquets were of the same flower. The chandeliers were festooned with asparagus. The decorations were by Gude Bros.

Mr. Chas. G. Dulin gave a luncheon Friday, at which the decorations were white and violet. From the center lamp radiated violet ribbons to each of the places, bearing on the end the name of the guest to occupy the seat. The corsage bouquets were of violets and the souvenirs of the occasion were boxes of bonbons tied with violet ribbons, on the bow of which poised a butterfly.

The President and Mrs. Cleveland gave their second card reception last Thursday in honor of Congress and the Judiciary. The east room was decorated as usual. The effect was enhanced by the introduction of red, white and blue electric lights among the massing of green palms, crotons and dracænas in the large east windows. The mantels on the east side of the room were banked with cut flowers and the chandeliers festooned with smilax. The blue room was decorated as usual. The mirror rests were banked with cut flowers, the colors being scarlet and white, with a massing of foliage plants in the rear of the apartment.

Smilax is a drug in the market this season. Last year our florists could not get enough for their decorations. Arparagus seems to have taken its place entirely. Bulbous stuff is coming in quantity and the quality is excellent. Violets are more plentiful and are much finer. Pink roses are still scarce and poor. Meteors are quite plentiful, but the demand for them is far behind last year.

Chionanthus fragrans is now in full flower in the open ground. The flowers are small whitish or yellow, purplish inside and very sweet scented. A few sprigs of this tiny flower hid among others will give a most delicious perfume to the lot. It is worthy of a place among a collection of shrubs, perfectly hardy and of easy culture, a native of Japan. It is easily increased by division.

C. LESLIE REYNOLDS.

YOU CAN'T AFFORD to do business without a copy of our trade directory and reference book.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By first-class designer and florist; working now in a leading store of Chicago. Address N P, care American Florist.

SITUATION WANTED—By a first-class florist to take charge of roses and chrysanthemums. Address R S, care American Florist, Chicago.

SITUATION WANTED—By first-class florist, to take charge. Thoroughly experienced in all branches. All references. FLORIST, box 765, Kalamazoo, Mich.

SITUATION WANTED—In private place, as gardener, by man of experience; married and small family. Good references. TROPIC, care Am. Florist

SITUATION WANTED—At general greenhouse work; had considerable experience, and not afraid to work. Address SHARPLESS WALTER, Doe Run, Chester Co., Pa.

SITUATION WANTED—By first-class florist; 18 years' experience; single. Best of references. Private or commercial place. Address F O, care American Florist.

SITUATION WANTED—By a successful grower and propagator. Life experience in the business; 27 years of age, single. Address C L, 42 Peck Court, Chicago.

SITUATION WANTED—By a single man, as foreman; 8 years' experience in growing of roses' chrysanthemums and general stock. Address W M, care American Florist, Chicago.

SITUATION WANTED—In commercial place, by good all-round working florist; 36 years of age; married, small family. Good references Address O E W, 4875 Natural Bridge Road, St. Louis, Mo.

SITUATION WANTED—By a first-class all-round man, where strict attention to business will be appreciated. First-class references State wages. Address R G, care American Florist.

SITUATION WANTED—As florist or propagator in growing roses, carnations, palms, orchids and general stock; 18 years experience, single; commercial or private place. Address P O, care Am. Florist.

SITUATION WANTED—By a young German; six years' experience in this country in a commercial establishment; speaks good English; age 22, single. Good reference. Address L, Box 72, Calla, Ohio.

SITUATION WANTED—By first-class designer a situation where artistic work is appreciated Fast worker; steady and sober. Moderate salary but steady place expected. Address Y Z, care Am Florist.

SITUATION WANTED—In commercial or private place as head gardener. Thorough experience in all parts of horticultural work. The very best of recommendation. Address K L, care American Florist, Chicago.

SITUATION WANTED—By a young man, as assistant in greenhouse; have had some experience. Can furnish best of references as to character and reliability. Address W C D, 196 Mulberry St., Lockport, N. Y.

SITUATION WANTED—By first-class gardener and florist; Scotch; married; 20 years at the business. Grapes under glass a specialty. First-class references. Private place preferred. Address WILLIAM GRAY, box 3, Mt. Clemens, Mich.

SITUATION WANTED—By a young man who has had 5 years' experience in general stock growing and greenhouse work. Has also had experience in mailing department. Can furnish good references. Address O C H, box 55, Calla, Ohio.

SITUATION WANTED—The 1st of March by a practical florist, 12 years' experience; sober and steady, age 27; Swede. References on application. Vicinity of Chicago preferred. For further information Address ALBA, care American Florist, Chicago.

SITUATION WANTED—By intelligent, energetic man of strictly temperate habits as foreman in commercial establishment. Well up in modern methods of culture, and if necessary could take charge of books and correspondence. A B C, care Am. Florist.

SITUATION WANTED—A young married man, sober, intelligent and of executive ability, experienced in cut flowers and growing all kinds of plants, wishes situation; can make up and decorate; understands steam fitting and handy with tools. Address CHRISTIAN, care American Florist, Chicago.

SITUATION WANTED—By practical florist; age 24; 9 years' experience in general greenhouse stock, roses and carnations. Also good designer. Good references. Private or commercial. Would like to go south or west. Please state wages and particulars. Address F. N. QUICKERT, box 409, Eau Claire, Wis.

SITUATION WANTED—The advertiser is single, age 26 years, strong and active, well versed in all the branches of the profession, has been two years in this country and is desirous of procuring a good situation under a first-class man in large commercial or private place, in Philadelphia, Boston or New York; good recommendations from some of the leading establishments in London, Eng., also two years here. Please address THISTLE, care Am. Florist, Chicago.

WANTED—Interest in or charge of greenhouses. I N, care American Florist, Chicago.

WANTED—A good cut flower grower, either married or single, in Chicago. A. FUCHS, Evanston Ave. and Grace St., Chicago.

WANTED—An experienced grower of roses, carnations, and general stock of plants. Address F. V. R. STILLMAN & Co., Wellsville, N. Y.

WANTED—Immediately, a man with experience, who thoroughly understands propagation and growing of roses and chrysanthemums. Apply P. O. Box 582, Downer's Grove, Ill.

WANTED—Cash price on one thousand feet glass; and on soft coal heater to heat it—one that will not require night watching. DARLINGTON BROS., Morristown, Tenn.

WANTED—A good all round man who understands growing cut flowers and all kinds of plants for a retail place. Give references and state wages Address 914 Broad St., Newark, N. J.

WANTED—Greenhouse, grape and rose gardener. Best of references. Must have been 2 years or more in one place; no children; not over 37 years old; good worker; married; $50.00, cottage, etc. free; on railroad, 25 miles from city. Address B A, care American Florist, Chicago.

WANTED—Gardener: German, not over 28 years old, that learned trade in Germany; must speak English, and be familiar with American growth. First month $1.50 per day; afterwards $1.75. Position open February 15th, 1894. Steady work. State age. Address R. HOFFMANN, Hillsdale, Mich. (Gardener L. S. & M. S. R. R.)

WANTED—Two single men with good habits and address that speak English fluently, who understand steam heating and growing of roses, carnations, chrysanthemums and other general stock, also floral work and selling same. State wages; send references Good chance to work up. Also a gardener wanted. Address ROCKY RIVER NURSERY & GREENHOUSES care Fries & Schuele, Cleveland, O.

FOR SALE—$6,500 will purchase 12,000 square feet of glass, well stocked; 1 acre of land, and 8-room dwelling, in Chicago; or will rent greenhouses. Address H. S DIETRICH & Co., 90 La Salle St., Chicago.

FOR SALE OR TO RENT.

Nine greenhouses, well stocked; also wind mill, barn, pots, etc.; a mile from New York City. For full particulars, address J & W L, 328 Flushing Ave., Astoria, L. I., N. Y.

FOR RENT.

The entire establishment formerly occupied by V. H. Hallock & Son, at Queens, L. I., 12 miles from New York. Including 10 greenhouses, packing houses and sheds, office, two cellars, one 125x30 ft., the other 55x30. Immense bulb house. Also 40 acres of land. This place has been run as a bulb and flower concern for 24 years. A fine opening for a miscellaneous bulb business. The time is right for the right concern of this kind. Can be had very cheap for a term of years. Also a fine locality for a local plant trade. Address E. V. HALLOCK, Queens, N. Y.

FOR SALE.

A large commercial establishment in New Jersey, consisting of about 10 acres of land, with 22 greenhouses of the following dimensions:

8 houses 18 feet wide by 100 feet long.
6 houses 16 feet wide by 100 feet long.
1 house 10 feet wide by 100 feet long.
2 houses 12 feet wide by 100 feet long.
4 houses 12½ feet wide by 100 feet long.
1 house 22 feet wide by 100 feet long.

All connected by a long shed and heated by the most improved Steam Boilers. The firing is all done in one place, and the ashes can be wheeled out. Finest water system in the world; six houses can be watered at one time without affecting the pressure.

This place is situated in a flourishing town—Market value of property is $1800 per Acre. It is 9 miles from New York by wagon route—all hard roads. Five minutes walk from Railroad Station; sixteen trains each way daily. There are two Auction Houses in New York and two Markets, the finest in the world for disposing of plants. It is also near two other large manufacturing cities, being 4 miles from one and 8 miles from another, both having good plant markets.

The out-buildings consist of a new barn 26 by 52 feet, the upper part of one-half being fitted up for man and family to live in, a large boiler house and carpenter shop, a flower cellar and Cut Flower room.

Without exception the location for a wholesale cut flower or plant establishment is unsurpassed.

Well stocked for Spring. Price $32,000. Will accept one-half cash, balance on bond and mortgage at 5 per cent. Address BARGAIN, care American Florist, Eastern Office, 67 Bromfield St., Boston, Mass.

Montreal.

The annual meeting of the Montreal Gardeners' and Florists' Club took place on Tuesday, Jan. 23. The reports of the secretary and treasurer were considered very satisfactory. A committee was named to see what arrangement could be made with the Horticultural Society, with a view of working in unison.

The elections of officers resulted as follows: President, John Eddy; 1st vice-president, John Bland; 2nd vice-president, John Holliday; treasurer, Alfred Wilshire; recording secretary, Fred Bennett; assistant secretary, Joseph Davis; corresponding secretary, Henry Stocking; committee, Jas. McKenna, B. T. Baud, F. C. Smith, Jas. Nairn, John Perrin.

The annual dinner took place immediately after the meeting, about 50 sitting down to the table. There was a good menu provided, to which ample justice was rendered. During the dessert course much fun was indulged in with the "Neponset flower pots" which were supplied with false bottoms, much to the surprise and sorrow of many of the diners.

After the dinner, the usual loyal and patriotic toasts being honored, the following were offered: "Kindred Societies," responded to by J. Doyle; "The Craft," responded to by Messrs. Graham (seed trade), J. McKenna (wholesale grower), A. Wilshire (retail florist) and J. Walsh (private gardener); "Retiring Officers," responded to by G. Copeland, H. Stocking and J. Bland. "In-coming Officers," J. Eddy and F. Bennett. The evening passed merrily away with songs and jokes from Messrs. Hopkins, Petit, Bird, Robinson, Wm. Wilshire, McHugh, Bray, Walter Wilsnire and Cadman. That much fun was enjoyed may be well believed since several old members who never had attempted such a feat before were to be seen honestly doing their best to burn up, if not able to smoke, their cigars. At any rate matches were scarce before we got through. To wind up the evening's fun our worthy host and also our late worthy president were both given a good honest Canadian Bournee to the tune of "He's a daisy, we believe it, just now," all standing up and singing "Auld Lang Syne" before we departed.

The tables were handsomely decorated with begonias, azaleas, hyacinths, cyclamen, poinsettias and tulips, supplied by Walter Wilshire, our genial ex-president.

HABITANT.

HOLYOKE, MASS.—Officers of the Horticultural Society were chosen at the January meeting as follows: President, E. S. Waters; vice-presidents, W. S. Loomis and Mrs. C. W. Ranlet; secretary, George Hicks; treasurer, C. E. Mackintosh. The new members of the board of directors are E. D. Shaw and A. F. Sickman.

HEADQUARTERS for WATER LILIES

SEED of Red, White and Blue varieties, 50 cts. per trade pkt.

Nelumbium speciosum (Egyptian Lotus), N. s. roseum, N. luteum. Prices on application.

My Columbian Novelties will be ready for distribution this spring. These include such vars. that received special award at the World's Fair, and other rare vars.

Wm. TRICKER, DONGAN HILL New York.



YOUNG ROSE PLANTS

We offer the following very choice plants in 2-inch pots:

	Per 100		Per 100
Am. Beauties,	$7 00	Mermets,	$3 50
Bridesmaids,	5 00	Perles,	3 50
Kaiserin,	4 00	Woottons,	3 50
La France,	3 50	Mme. Hoste,	3 50
D'ch. of Albany,	3 50	Bennetts,	3 50
Brides,	3 50		

The above stock is very strong and healthy, and propagated from selected wood. We raised the above to grow for ourselves, and it will give better satisfaction than stock which has been raised simply to sell.

BASSETT & WASHBURN,
Hinsdale, Ill.

SMILAX.

CUT SMILAX—Half an acre ready to cut now. Quality A 1.

EASTER ORDERS BOOKED NOW.

SMILAX PLANTS—Extra strong 1 yr. old, $2.50 per 100; $20.00 per 1000.

TRANSPLANTED SEEDLINGS—$1.00 per 100; $8.00 per 1000.

SMILAX SEED—A few ounces left; crop of 1893, at 50c. per ounce.

JOS. E. BONSALL,
WHOLESALE FLORIST,
308 Garfield Avenue, SALEM, OHIO.

Siebrecht & Wadley,
ROSE HILL NURSERIES,
NEW ROCHELLE, N. Y.

Palms,
ORCHIDS,
Roses,
and New Plants.

FRESH DRACAENA CANES NOW READY.

ORCHIDS.
The Finest Stock in the World.
SANDER'S,
ST. ALBANS,
ENGLAND.
Thirty minutes from London.
Our Mr. A Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street, New York City.

FRESH IMPORTED ORCHIDS.
Cattleya Gaskelliana,
5—7 Bulbs, $.75 each.
7—12 Bulbs, 1.25 each.
Larger plants, $2.00 to $5.00 each.
I. FORSTERMAN,
Newtown, N. Y.

Premium American Pansy Seed

Grown by Wm. Toole, Baraboo, Wis. Descriptive list of 82 varieties and mixtures with *Pansy Guide free.*

Hesperian Pansies, 25 cts. pkt. Selected mixed, 15 cts pkt.; ⅛ oz. 75 cts. Extra choice mixed, 10 cts.; ⅛ oz. 50 cts. Trade pkts., 1000 seeds, double price of single pkts.

WM. TOOLE, Pansy Specialist, Baraboo, Wis.

CONTRACT NOW for FORCING ROSES

for your next season's planting and secure well rooted stock grown specially for your order. Last year, owing to the heavy demands made upon us at planting time, we were unable to fill many orders, thus disappointing our customers. We are now contracting to grow, for delivery when wanted, the leading varieties of forcing roses—including the new kinds. BRIDESMAID, the best pink grown; KAISERIN and TESTOUT; also Meteors, Beauties, Woottons, Brides, La France, etc., etc.

We earnestly request intending purchasers to submit us a list of their wants, and we will be pleased to quote them special prices for strong, well rooted plants to be delivered when they may designate.

We make a Specialty of Growing Roses for the trade. Having experienced and competent growers. Our stock is first-class in every particular and we guarantee satisfaction. Of the many hundred unsolicited testimonials we append the following; "Roses got of you last year have been the best bearers we have in our houses. RIVERSIDE FLORAL CO., Marshalltown, Iowa."

Order Early and secure the Best.

L. L. MAY & CO.,
Florists and Seedsmen, ST. PAUL, MINN.
Our Wholesale and Retail Catalogue for 1894 mailed free on application.

Forcing Roses.

A stock of the best varieties always on hand.

M. A. HUNT, Terre Haute, Ind.

Hybrid Perpetual Roses,

Worked low on the Manetti Stock, offer the best results to the florist, blooming freely and giving plenty of cuttings for propagating quickly. Fine plants for sale by the 100 or 1000, at low rates.

Price Lists to applicants. Address

WILLIAM H. SPOONER,
JAMAICA PLAIN, (Boston), MASS.

My Specialties are

ROSES, CARNATIONS,

and Chrysanthemums.

JOHN N. MAY, Summit N. J.

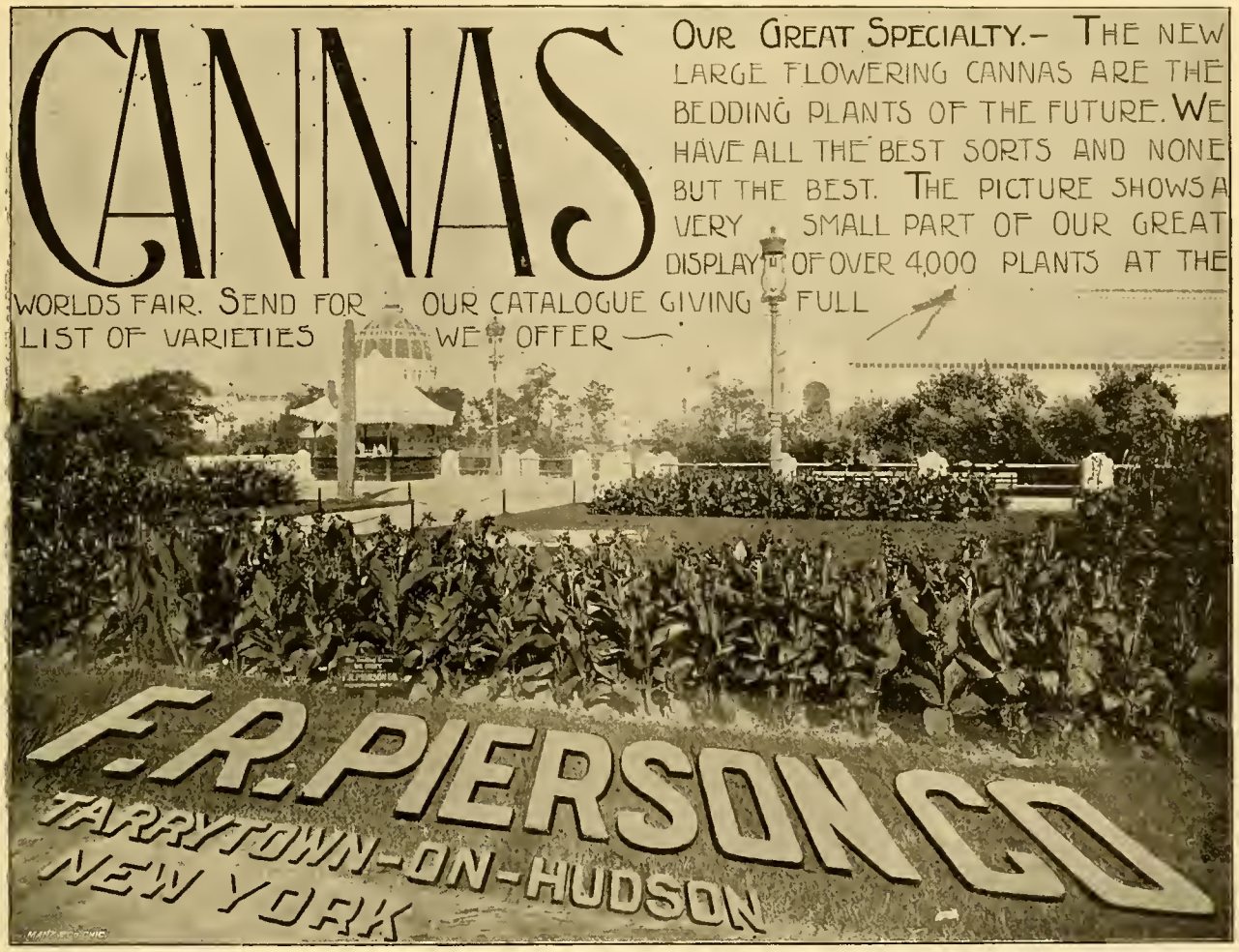
ROOTED CUTTINGS.

Brides, Cusins,
Bridesmaids, Niphetos,
Meteors, Perles,
Hostes, Beauties,
Mermets, Testouts, La France.

Address for quotations

T. W. STEMMLER,
Villa Lorraine Roseries, MADISON, N. J.

When writing to any of the advertisers on this page please mention the American Florist.



BARGAINS,

GOOD PLANTS, and ready to ship NOW.

	Per 100
Geraniums, Mme Sallerol, very stocky, 2-inch	$ 1.50
" Bronze, strong, 2-inch	3.00
" best bedders, 5 to 20 varieties	2.50
Coleus, splendid assortment, 2-inch	2.00
" Golden Bedder (alone), strong, 2-inch	2.00
Heliotropes, 2-inch	2.00
Fuchsias, good assortment, 2-inch	3.00
Canna Mme. Crozy, dry bulbs, $1 00 per dozen.	

I have the following in **ROOTED CUTTINGS,** ready to ship any day.

Geraniums, best bedders, 5 to 20 varieties	$ 1.25
" La Favorite, best double white	1.25
" Rose Scented	1.25
" Mme. Sallerol	1.00
Ivy Leaf Geraniums, fine double varieties mixed	2.00
Coleus, about 20 splendid varieties in mixture	.50
" Golden Bedder (when ordered alone)	.75
Double Sweet Alyssum	.50
Carnation Portia	1.00
" Lizzie McGowan	1.00
" Puritan	1.25
" Nellie Lewis	1 50
" Fred. Dorner	1.25
" Grace Wilder	1.00
" Aurora	1.50
" Garfield	1.50
100,000 Rooted Cuttings Carnations ready.	
Alternanthera nurea nana	.50
" P. major	.50
Manettia Vine	1.00

N. S. GRIFFITH, Independence, Mo.

Independence is well located for shipping, being 8 miles East of Kansas City, Mo.

Mention American Florist

E. G. HILL & CO.,

Wholesale Florists

RICHMOND, INDIANA.

EXTRA CHOICE FLOWER SEEDS.

List free on application.

FRED. ROEMER, SEED GROWER,
QUEDLINBURG, GERMANY.

Mention American Florist.

HOW TO GROW CUT FLOWERS.

A PRACTICAL TREATISE ON

THE CULTIVATION OF THE ROSE,

And Other Flowering Plants for **Cut Flowers,** sent to any address upon receipt of **$2.00.**

M. A. HUNT, Terre Haute, Ind.

100,000 VERBENAS.

THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.

NO RUST OR MILDEW.

Packed light and satisfaction guaranteed. Send for circular. . . .

We are the largest growers of Verbenas in the country. Our sales reaching last year 215,500. Our plants this year fully equal, if not surpass, any we have ever grown.

J. L. DILLON, Bloomsburg, Pa.



TRY DREER'S GARDEN SEEDS,

Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.

HENRY A. DREER,
Philadelphia, Pa.

CLEMATIS.

I have choice lot of nice, well rooted, one year plants, very suitable for potting now; these will make fine strong plants by sales time, grown in cold house and treated same as H. P. and other roses, in variety, Jackmanni, Duchess Edinburg, Henryii, C. Lovelace, Fairy Queen, Lady Neville, Gem, P. Alexandra and others, $1.50 per doz.; $12 per 100. Two year in var. $3 per doz.; $20 per 100.

F. A. BALLER, Bloomington, Ill.

Mention American Florist.

200,000 Pansies.

The Jennings strain of large flowering and fancy pansies may still be had in any quantity wanted. Plants are field grown, and are fine and stocky. Finest mixed, by Express, $5.00 per 1000; 5000 $20.00; 10,000 $35.00. Small plants by mail, 60c. per 100.

Seed, pure white, yellow or mixed, $1.00 per trade pkt. of 2,500 seeds. The leading strain. The largest sales. Always satisfactory.

ADDRESS **E. B. JENNINGS,**
WHOLESALE PANSY GROWER,
Lock Box 254. SOUTHPORT, CONN.

P. SEBIRE & SONS,

Nurserymen, USSY, Calvados, FRANCE.

A general assortment of Fruit Tree Stocks, such as Apple, Pear, Myrobolan Plum, Mahaleb and Mazzard Cherry, Angers Quince, Small Evergreens, Forest Trees, Ornamental Shrubs, Roses, etc. The largest stock in the country. Prices very low. Packing secured. Catalogue free. Send for quotations before placing your order elsewhere. Agents for U. S. America and Canada.

C. C. ABEL & CO., P. O. Box 920, New York.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Toronto.

The trade in this town appears to be getting "kinder mixed," but if an outsider should hear the remark made that there are no wholesalers in Toronto, he need not infer therefrom that there are not plenty of cut flowers to supply both the home and outside market.

Some days there is a little business doing and other days there is not enough to be worth mentioning. Taking it altogether, perhaps the less said about it the better. It hardly seems probable that it will improve much just yet except for a short time perhaps about Easter, and it hardly seems possible that it can get any worse. Napoleon used to say that everything comes to the man who knows how to wait, and as there appears to be nothing better to do now but to wait for the good times which are bound to come sooner or later (may it be sooner), we may as well be as cheerful as we can while waiting. Our annual dinner on the 31st should be of some assistance in driving dull care away.

Mr. Geo. Reeves, superintendent at Reservoir Park, is building a large tank after the most approved pattern for growing aquatics in one of the greenhouses.

Cattleyas in variety are conspicuous in many of the store windows now. J. H. Dunlop has started a new idea at his retail store which seems to take well: 25-cent boxes of cut flowers are shown in the window; they contain quite a few roses, some Roman hyacinths, etc., and green. They certainly look very tempting, and the price brings them within reach of all. E.

DELAWARE, O.—Mr. J. H. Cunningham, the florist, buried his 7 year old daughter Kittie January 21. The little girl was very popular and the funeral was largely attended by sympathizing friends. The cause of death was pneumonia following an attack of measles.

HARDY CUT
FERNS!
5,000,000 ON HAND.

EVERYTHING GREEN ALWAYS IN STOCK.

H. E. Hartford,
18 Chapman Place, BOSTON, MASS.

Mention American Florist

CORBREY & McKELLAR,
Wholesale and Commission Florists,
Phone Main 4508. **45 Lake Street, CHICAGO.**
We are prepared to fill your orders with First-Class Flowers.
Give us a trial order.

FOR DECORATING, NOTHING CAN EQUAL
ASPARAGUS PLUMOSUS NANUS.
CUT STRINGS 8 TO 12 FEET LONG, 50 CTS.
12 TO 18 FEET LONG, $1.00.
Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.
W. H. ELLIOTT, Brighton, Mass.


FANCY. DAGGER.
EVERGREEN CUT FERNS
ESPECIALLY FOR FLORISTS' USE.
$1.25 PER THOUSAND FERNS.
IN LOTS OF 5000 AND UPWARDS, $1.00 PER 1000. Ferns furnished the year round. Special attention given to supplying the Wholesale Trade.
L. B. BRAGUE. Hinsdale Mass.

GEORGE A. SUTHERLAND,
SUCCESSOR TO
PECK & SUTHERLAND,
Successors to WM. J. STEWART,
CUT FLOWERS
and Florists' Supplies.
WHOLESALE.
67 Bromfield St., BOSTON, MASS.

CUT SMILAX,
10c. per String, net cash.
15,000 Strings now ready for the market, which must be moved to make way for coming crop.
Special quotations on orders of one hundred strings and over.
Send for Catalogue of ROSE PLANTS.
THE NATIONAL PLANT CO.,
Dayton, Ohio.

Wild Smilax, Pines and Palmettos
FOR DECORATIONS
AT LOW FIGURES.
Low freight rates by steamer to New York, Boston, Philadelphia and Baltimore.
A. C. OELSCHIG,
SAVANNAH, GA.

Galax Leaves.
You cannot afford to be without them if you sell Cut Flowers and Decorate. Especially for Christmas. Big money in them. I sold 300,000 in 3 months last winter. $2.00 per 1000 by express. Sample 100 sent by mail on receipt of 50c.
LINCOLN I. NEFF, Florist,
4010 Butler St., PITTSBURG, PA
AGENT FOR HARLAN P. KELSEY.

Wholesale Florists
The LaRoche & Stahl Flower Co. Limited.
N. E. CORNER
13th & Chestnut Sts.
PHILADELPHIA.

SAMUEL S. PENNOCK,
Wholesale Florist
REAR OF 42 S. 16th STREET,
Philadelphia, Pa.

H. L. SUNDERBRUCH,
Wholesale Florist
4TH AND WALNUT STREETS,
Cincinnati, O.

DAN'L B. LONG,
COMMISSION • FLORIST,
495 Washington St., BUFFALO, N. Y.
FORCING BULBS, FLORISTS' SUPPLIES, LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application.

W. ELLISON,
WHOLESALE
Cut Flowers AND Florists' Supplies
1402 PINE STREET,
St. Louis, Mo.

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
WHOLESALE
FLORIST,
1122 PINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

E. H. HUNT,
WHOLESALE FLORIST
79 Lake Street, CHICAGO.

	Per 100
Perles, Niphetos, Gontier	$ 2.00@$ 4.00
Bride, Mermet, La France	4.00@ 6.00
Meteor Bridesmaid, Testout	5.00@ 7.00
Carnations, long, white	1.00@ 2.00
" " colored	1.50@ 2.00
" short	.75@ 1.00
Smilax	15.00
Callas, Harrisii	12.50
Romans, Paper White Narcissus	2.00@ 3.00
Violets	1.00@ 1.50
Lily of the Valley	4.00@ 5.00
Adiantum	1.00
Ferns, common per 1000 $2.50	.25

Cycas leaves, fresh, each $1; same preserved, each 75c.
Western Agent for the GREAT ANTIPEST.

FLINT KENNICOTT, President. FRED. W. H. SUNDMACHER, Sec'y and Treas.

Kennicott Bros. Co.
34 & 36 RANDOLPH STREET,
CHICAGO.
WHOLESALE CUT FLOWERS,
and FLORISTS' SUPPLIES.
WIRE WORK A SPECIALTY.

General Agents for Chicago and the Northwest of Kelsey's Beautiful New Southern Galax Leaves, $2.00 per 1000; 25 cents per 100.

A. L. RANDALL,
Wholesale Florist,
126 Dearborn St., CHICAGO.

Agent for finest grades Waxed and Tissue Papers.

J. B. DEAMUD & CO.
WHOLESALE CUT FLOWERS,
45 LAKE STREET,
IN CUT FLOWER EXCHANGE, CHICAGO.

REINBERG BROS.
WHOLESALE GROWERS OF
CUT FLOWERS
Roses, Carnations and Violets Specialties.
51 WABASH AVENUE,
Telephone 4937. CHICAGO.

WHOLESALE FLORISTS,
JOBBERS IN . . . FLORISTS' SUPPLIES,
METS, BRIDES, GONTIERS, CARNATIONS, ALWAYS ON HAND.
FLORISTS' VASES.
1 Music Hall Place,
BOSTON, MASS.
HORTICULTURAL AUCTIONEERS. . .

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St., BOSTON, MASS.

Wholesale Markets.

Cut Flowers.

NEW YORK, Jan. 28.

Roses, Gontier, Niphetos	1.00@ 3.00
" Perle	2.00@ 3.00
" Cusin, Watteville	2.00@ 6.00
" Mermet, Bride	2.00@ 6.00
" Bridesmaid	4.00@ 8.00
" Testout, La France	4.00@10.00
" Meteor	4.00@12.00
" Beauty	5.00@50.00
" Hybrids	15.00@50.00
Violets	.35@ 1.50
Carnations	.50@ 1.00
" fancy	2.00@ 4.00
Valley	2.00@ 3.00
Roman Hyacinths, Paper White Narcissus	1.00@ 2.00
Daffodils	3.00@ 5.00
Mignonette, bunches	10.00@25.00
" fine spikes	2.00@ 8.00
Cypripediums	8.00@12.00
Callas, Harrisii	5.00@ 8.00
Lilacs, per bunch	75c to $1.25
Smilax	5.00@10.00
Adiantum	.50@ 1.00

BOSTON, Jan. 28.

Roses, Niphetos	3.00
" Gontier	4.00
" Perle, Sunset	5.00@ 6.00
" Bride, Mermet	6.00@10.00
" American Beauty	15.00@50.00
Carnations	1.00@ 2.00
Lily of the valley	3.00@ 4.00
Roman Hyacinths	1.00@ 1.50
Paper white narcissus	2.00
Trumpet narcissus	2.00@ 6.00
Freesia	1.50@ 2.00
Callas, Harrisii	6.00@10.00
Mignonette	2.00@ 8.00
Violets	65@ 1.00
Adiantum	1.00
Smilax	12.50
Asparagus	50.00

PHILADELPHIA, Jan. 28.

Roses, Perle, Gontier, Niphetos	3.00@ 4.00
" Cusin, Watteville, Hoste	4.00@ 5.00
" Bride, Mermet, La France	6.00@ 8.00
" Kaiserin, Bridesmaid, Testout	6.00@10.00
" Belle, Beauty	25.00@35.00
" Laings	20.00@25.00
Carnations, H. Keller	7.00
" Ophelia, Sweetbrier, Dayhreak	2.00@ 3.00
" Edna Craig	2.00@ 3.00
Valley	3.00@ 4.00
Romans, Paper white	2.00@ 4.00
Daffodils	3.00@ 5.00
Smilax	12.00@15.00
Adiantum	1.00@ 1.50
Violets	1.00@ 1.50
Mignonette	1.50@ 2.00
Asparagus	50.00@75.00
Harrisii lilies	10.00@12.00
Callas	6.00@ 8.00
Freesia	1.00@ 1.50
Tulips	4.00@ 5.00
Cattleyas	40.00

CHICAGO, Jan. 29.

Roses, Beauty	10.00@40.00
" Bride, Mermet, La France	3.00@ 6.00
" Perle, Niphetos, Gontier	3.00@ 5.00
" Meteors	5.00@10.00
" Wootton, Bridesmaid, Testout	5.00@ 8.00
Carnations, short	.35
" long	1.00@ 1.50
" fancy	2.00@ 3.00
Violets	1.00@ 1.50
Valley	2.00@ 4.00
Tulips	3.00@ 5.00
Daffodils	4.00
Romans, paper white	1.00@ 3.00
Harrisii, Callas	5.00@15.00
Cattleyas	50.00
Adiantum	1.00
Asparagus	50.00
Smilax	15.00

ST. LOUIS, Jan. 29.

Roses, Perles, Niphetos, Wootton	3.00@ 4.00
" Watteville, Hoste	5.00
" Bride, Mermet, Bridesmaid	4.00@ 6.00
" Beauty	5.00@50.00
Harrisii, Callas	10.00@15.00
Narcissus	3.00
Romans	2.00
Valley	4.00
Carnations, long	2.00
" short	1.00
Violets	25
Smilax	12.00@15.00
Adiantum	1.25

CINCINNATI, Jan. 28.

Roses, Mermet, Bride	5.00@ 6.00
" Perle	4.00
Narcissus	3.00@ 4.00
Carnations	1.00@ 2.00
Callas	8.00
Harrisii	12.50
Violets	1.00
Pansies	1.00
Valley	4.00
Romans	2.00@ 3.00
Smilax	10.00@15.00
Adiantum	1.00@ 1.25
Asparagus	50.00@75.00

Orchid Cut Flowers.
CATTLEYAS, $50 per hundred.
PITCHER & MANDA,
UNITED STATES NURSERIES,
SHORT HILLS, N. J.
Mention American Florist.

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
Wholesale Dealers in and Shippers of
Choice Flowers
OUR SPECIALTIES:
AMERICAN BEAUTIES,
METEORS,
BRIDESMAIDS.

CUT FLOWERS.
ROSES, standard varieties and novelties
Carnations, all the new sorts in finest quality.
VIOLETS, MIGNONETTE AND VALLEY.
FIRST QUALITY STOCK.
WHOLESALE ONLY.
THOS YOUNG, JR.,
20 WEST 24TH ST., NEW YORK.

WALTER F. SHERIDAN,
· WHOLESALE ·
FLORIST,
32 West 30th Street, NEW YORK.
Roses Shipped to all points. Price list on application.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS,
51 W. 30th St., NEW YORK.

JAMES HART,
WHOLESALE FLORIST.
117 W. 30TH ST., NEW YORK.
The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHRS,
WHOLESALE
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.
Established 1879.

MILLANG BROS.,
Wholesale Florists,
17 WEST 28TH STREET,
NEW YORK.
BRANCH: Cut Flower Exchange, 408 E. 34th Street.

Edward C. Horan,
34 W. 29th Street, NEW YORK,
WHOLESALE FLORIST.
Careful Shipping to all parts of the country
Price list on application.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and treasurer, 114 Chambers street, New York. Next annual meeting second Tuesday in June, (will probably be held in Toronto.)

The Catalogue Trade.

In response to an inquiry sent to several houses in the catalogue trade the following replies have been received:

W. Atlee Burpee & Co., of Philadelphia, say: "We are pleased to tell you that the mail seed trade is opening very satisfactorily indeed, our receipts up to date being fully 20% ahead of the same period for January 1893. It is, however impossible to draw definite conclusions from this as the increase may be altogether due to the mild weather which we have had—last January you will remember was very severe and stormy. We do not think that these exceptionally hard times will depress the seed trade to anything like the extent that they have other lines of business."

John A. Salzer Seed Co., of La Crosse, says: "The first twenty days show decrease of 8% over 1893 and an increase over 1892."

Jas. Vick's Sons, of Rochester, says: "The season with us opens very well, but it is impossible to tell much about it so early."

Johnson & Stokes, of Philadelphia, says: "Trade has been a very pleasant surprise to us thus far; our sales averaging very much in excess of last year. We think this may be partially accounted for by our having such a very open winter, but it is an indication that money is lying around in the hands of the seed buyers and we look forward to a good season."

John Lewis Childs, of Floral Park, says: "Business thus far this year has been quite satisfactory. It is about the same as last year."

From reports received from other sources we are inclined to believe that the seed trade for January is fully up to that of January 1893.

BOSTON.—The seedsmen have all got their catalogues out now and are beginning to prepare for the expected orders. From appearances at this early date the indications are for a very busy season. Anything in the way of winter business has been well up to the average and there seems to be a universal confidence in the trade that spring business will be fully equal to that of past seasons. Seeds are late coming in owing to the poor season and late harvest in Europe, and some things are in short supply. In flower seeds some varieties of asters and all kinds of nasturtiums are short. On nasturtiums the delivery from abroad is reported to be not over twenty per cent of the quantity ordered. In market garden seeds, beets, wax beans, dwarf wrinkled peas and turnips are scarce, with prices higher. Sweet peas are exceedingly abundant and are offered under name at such low figures that there is little excuse for anybody to handle mixtures.

THE CALL for the winter meeting of the executive committee of the American Seed Trade Association has been issued for Tuesday, February 6th, at the Cosmopolitan Hotel, New York.

NEW YORK.—Theodore Pabst & Co., agents for Vilmorin, Andrieux & Co., have assigned. The agency has been transferred to August Rhotert, 26 Barclay street.



WHY do so many Canna Growers say they have a YELLOW Canna "As good as Florence Vaughan?"

This Canna has been introduced to the trade in America and Europe solely by us, not by M. Crozy, the originator, as stated by some of our competitors. The true stock has been disseminated wholly and solely by us. Stock offered as introduced by others is suspicious.

VAUGHAN'S SEED STORE,
New York. CHICAGO.



NEW CROP ONION SEED
$1.00 PER POUND—
Either RED WETHERSFIELD or YELLOW DANVERS.
$2.25 PER POUND for American Grown Prizetaker,
In lots of FIVE POUNDS of one kind or assorted as desired. With every $5.00 order goes FREE a copy of Greiner's Newest and Best Book, "ONIONS FOR PROFIT," telling all the Secrets of Success in Old and New ONION CULTURE.

If You Garden for Profit
you can save money and should buy at Wholesale Prices, as quoted in BURPEE'S BLUE LIST for 1894. It is mailed FREE to Market Gardeners everywhere, who, while entitled to *the lowest prices possible*, should always be sure to get Only the Best Seeds That Grow! BURPEE'S SEEDS ARE WARRANTED,—*few equal, none better*—and are annually sold direct to many more planters than are the seeds of any other growers.

W. Atlee Burpee & Co., Seed Growers, Philadelphia, Pa.

☞ If you have not already seen BURPEE'S FARM ANNUAL for 1894, write for it TO-DAY. A handsome book of 172 pages, it is pronounced by papers everywhere *The Leading American Seed Catalogue.* It tells all about the Choicest Vegetables and Most Beautiful Flowers for THE HOME GARDEN.

HEADQUARTERS FOR COLEUS
Golden Queen, Golden Bedder, and Crimson Verschaffeltii specialties; also a large number of other varieties. Rooted Cuttings $6 00 per 1000. Liberal discount for large orders.
Gernoiums, 2½-in. pots, $20 per 1000; $2.25 per 100; from flats, $15 per 1000; $1 75 per 100. Ageratums, blue and white, rooted cuttings, 75c. per 100. Fuchsias, leading sorts, 2½-in. pots, $2 per 100; rooted cuttings, $1.25 per 100. Petunias, Dreer's strain, 2½-in. pots, mixed, $2.50 per 100; rooted cuttings $1 50 per 100; Double White same price. Heliotrope, 4 varieties, rooted cuttings, $1.25 per 100. Salvia Splendens, $1.25 per 100 rooted cuttings. At these prices the selection of sorts to remain with us. Cash must always accompany the order. J. E. FELTHOUSEN,
370 Van Vranken Avenue, SCHENECTADY, N. Y.

Zirngiebel's Seeds for Florists.
QUALITY GUARANTEED.
GIANT MARKET AND GIANT FANCY PANSIES.
EARLY AND LATE ASTERS, all colors.
EXTRA EARLY DWARF WHITE STOCK, in trade packages, at $1.00 each.
DENYS ZIRNGIEBEL, Needham, Mass.

FOR
Caladium Esculentum Bulbs,
WRITE TO
L. CAMERON,
SEEDSMAN AND FLORIST,
JACKSONVILLE, FLA.

Mention the American Florist when writing to advertisers on this page.

Ernst Reimschneider, Altona, Germany,
BERLIN LILY OF THE VALLEY PIPS
Extra selected quality, in cases of 3000 pips.
Now in COLD STORAGE WAREHOUSE. Also for importation on orders. SEEDS, Dried Flowers, Grasses, etc., and Spring Bulbs.
SOLE AGENTS
C. C. ABEL & CO., P. O. Box 920, NEW YORK.

PEARL TUBEROSES,
$7.50 per 1000; 85 cts. per 100.
CURRIE BROS.,
MILWAUKEE, WIS.

THE ASSOCIATION FLORA,
BOSKOOP, HOLLAND.
NOW ON HAND IN NEW YORK:
CLEMATIS in sorts, 3 years..... per 100 $25.00
SPIRÆA JAPONICA " 4.00
DIELYTRA SPECTABILIS..... " 4.00
Lilium speciosum, Pæonias Rhododendrons, Azaleas H. P. Roses, in best varieties, per 100 $9 00: Abel Carriere, Alfred Colomb, Anna Alexieff, A. de Diesbach, B. Rothschild, Fisher Holmes, Gen. Jack, La France, Mme. G. Luizet, Mme. Plantier, Magna Charta, Paul Neyron, P. C. de Rohan, Perle des Blanches, Ulrich Brunner and others. Catalogue on application.
P. OUWERKERK,
206 Cambridge Ave., JERSEY CITY, N. J.

Mention the American Florist when writing to advertisers on this page.

FIFTY THOUSAND

PEARL TUBEROSES

F. O. B. NEW YORK.

We offer selected bulbs of above, from four to six inches in circumference, for present shipment, at $9.00 per 1000. Orders accepted subject to being unsold.

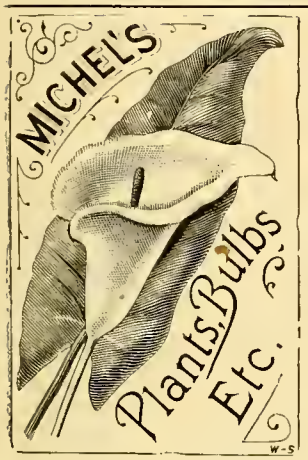
SWEET PEAS, California grown.

We are headquarters for California grown Sweet Peas, and parties desiring to contract for their requirements for season of 1894, will do well to write for prices.

SUNSET SEED & PLANT CO.

(SHERWOOD HALL NURSERY CO.)

427-9 Sansome St., *San Francisco, Cal.*



Write for Wholesale List.

MICHEL PLANT AND BULB CO.,

ST. LOUIS, MO.

Hulsebosch Brothers,

OVERVEEN, HAARLEM, HOLLAND.

	Per 100	Per 1000
LILIUM SPECIOSUM ALBUM	$ 6.00	
" " ROSEUM	5.00	
" " RUBRUM	5.00	
SINGLE BEGONIAS, fine bulbs, new crop, finest strain, in 4 separate colors	4.00	35.00
CONVALARIA MAJALIS, German pips	1.00	8.00
TUBEROSES, Pearl and Tall, A1 (big) bulbs	.90	7.50
LOW BUDDED ROSES, in sorts, Dutch Stock	9.00	
English Stock	11.00	

All other plants or shrubs can be ordered for March, '94 delivery.

HULSEBOSCH BROS.,

58 West Street, NEW YORK CITY.

Z. De Forest Ely & Co.

WHOLESALE SEEDSMEN,

Growers AND Importers of Bulbs.

JOBBERS IN

FLORISTS' SUPPLIES.

1024 Market Street, PHILADELPHIA, PA.

Price lists to dealers on application.

SEEDS!

PLANTS! BULBS!

Everything appertaining to the Farm and Garden of the best and choicest quality. PRICES RIGHT.

Catalogue on application.

WEEBER & DON.

114 CHAMBERS ST., NEW YORK CITY.

When writing to any of the advertisers on this page please mention the American Florist.

eed eed

FOR

MARKET GARDENERS AND FLORISTS

Almost our entire extensive business is supplying the choicest varieties of Garden and Flower Seeds direct to **Market Gardeners** and **Florists.** We furnish not only sorts that are pure and true of their kind, but we make a **close** study of the varieties that are especially adapted to the wants of the **Gardener, who grows for Market and Shipping.**

While there are other good, reliable seed houses, there is **no house in the trade** that has given the wants of this class of planters the careful attention we have, or can serve him as well.

Fully appreciating the great care necessary with this class of orders, they are carefully separated and given to our most reliable and trusted employes to execute.

Our handsome Catalogue and Wholesale Market Gardeners Price List will be sent free and their Photographic Illustrations truthfully portray the Superior Vegetables our Seeds produce.

JOHNSON & STOKES,

217 & 219 Market Street, PHILADELPHIA, PA.

Mention American Florist.

Oscar Knopff & Co.,

SEED GROWERS, ERFURT, GERMANY,

Flower, Kitchen Garden, Etc. Seeds.

LILY OF THE VALLEY BULBS.

Best qualities at low prices. Orders promptly executed.

MEDAL AWARDED AT WORLD'S COLUMBIAN EXPOSITION

Sole Agents for United States and Canada:

C. B. RICHARD & CO., 61 Broadway, NEW YORK.

☞ Trade Catalogue for 1894 free on application.



Is Different from Others.

It is intended to aid the planter in selecting the Seeds best adapted for his needs and conditions and in getting from them the best possible results. It is not, therefore, highly colored in either sense; and we have taken great care that nothing worthless be put in, or nothing worthy be left out. We invite a trial of our Seeds. We know them because we grow them. Every planter of Vegetables or Flowers ought to know about our three warrants; our cash discounts; and our gift of agricultural papers to purchasers of our Seeds. All of these are explained in the Catalogue, a copy of which can be yours for the asking.

J. J. H. GREGORY & SON. Marblehead, Mass.

The sower has no second chance. If you would at first succeed, be sure and start with

FERRY'S SEEDS.

Ferry's Seed Annual for 1894 contains the sum and substance of the latest farming knowledge. Every planter should have it. Sent free.

D. M. Ferry & Co., Detroit, Mich.

Mention American Florist.

TESTED SEEDS

Plant Tested Garden, Flower and Farm Seeds and be sure of a good crop. Our stock is complete and the quality unsurpassed. Send for our *Free Illustrated Catalogue of* Seeds, Plants, Bulbs, Tools, Etc.

W. W. BARNARD & CO., Chicago,

(Successors to Hiram Sibley & Co.) 6 & 8 N. Clark St.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

Catalogues Received.

Nanz & Neuner, Louisville, Ky., seeds, plants and bulbs; John Gardiner & Co., Philadelphia, seeds; Steele, Briggs, Marcon Seed Co., Toronto, Canada, seeds and plants; John McGowan, Orange, N. J., carnations; Allen L. Wood, Rochester, N. Y., small fruits; Weeber & Don, New York, seeds; H. F. Michell, Philadelphia, seeds and bulbs; Lohrman, Brotherton & Co., Detroit, Mich., seeds; J. Chas. McCullough, Cincinnati, O., seeds; Fred Dorner & Son, Lafayette, Ind., trade list carnations; D. Landreth & Sons, Philadelphia, seeds; A. Keilholz, Quedlinburg, Germany, seeds.

TRENTON, N. J.—There was a very good attendance at the recent meeting of the State Hort. Society in this city: The papers were listened to with much interest. A special feature of the program was the presentation of a box of bulbs and seeds to each lady present. The officers elected were as follows: President, E. Williams; vice-president, E. P. Beebe; secretary, H. I. Budd; treasurer, Chas. L. Jones; executive committee—Dr. J. B. Ward, J. M. White, I. W. Nicholson, D. A. Vanderveer, E. P. Beebe; fruit committee, A. W. Pearson, W. R. Ward, John Repp, S. C. DeCou, Geo. W. Jessup; flower committee, E. P. Beebe, Mrs. L. R. Trimble, Chas. L. Jones; vegetable committee, Franklin Dye, D. V. Garhart, G. L. Voorhees; legislative committee, Dr. J. B. Ward, I. B. Nicholson, Theo. F. Baker; delegates to state board of agriculture, E. Williams, Charles Parry.

PEORIA, ILL.—Christmas trade was about same as last year. Prices were about same too, except on roses, which were about 20% lower. Had plenty of everything except good colored carnations. Quality was about as usual at the season, except roses, which were a little off color. More call for colored flowers. Narcissus sold well, but hyacinths went slowly. Increased call for plants, both decorative and flowering. Holly sold well. New Year's trade was a little better than last year, but of course not nearly as good as Christmas. The business has been demoralized here by two of our florists, who have been trying to see which could sell the cheapest. Last November one put out a sign offering roses at 6 cents a dozen and the other one at once hung out a card offering roses at 5 cents a dozen. Of course this foolish competition has hurt us all.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

Rooted Cuttings.

100 Coleus, 10 kinds by mail **60c**

Shelly's Yellow and Verschaffeltii,

By Express.....$5.00 per 1000.
With 12 other good kinds 4.00 per 1000.

ALTERNANTHERA P. Major and Aurea Nana, by mail, 50c. per 100.
Sample dozen by mail, 10c.

S. O. STREBY,
Lock Box 77,
UPPER SANDUSKY, OHIO.

CYCLAMEN GIGANTEUM. | **PRIMULA CHINENSIS.**
Good plants from best seed.
A. S. MacBEAN, Lakewood, N. J.

CARNATIONS.

My list is not a big list but it is a mighty good list, and the cuttings are equally good. I would like to quote figures to you on any of the following varieties. In writing please state how many you will want of each variety. **Daybreak, Lizzie McGowan, Silver Spray, Grace Darling, Aurora, Portia, Edna Craig, Fred Dorner, J. R. Freeman, Golden Triumph.**

Annie Pixley and Helen Keller.

PIXLEY is one of those beautiful light pinks, with a fair sized flower and good, strong calyx. With ordinary culture stems can be cut twenty inches long. The flower is a model in form, and the growth is strong and healthy.

KELLER you know all about, they are both sure to make good paying varieties for cut flowers.

Pixley per 100, $12.00; per 1000, $100.00.
Keller per 100, $12.00; per 1000, $90.00.

Verbena Lancaster Beauty.

Decidedly the prettiest Verbena that grows, novel as well as beautiful and sells at sight.

Price, per 100, $2.00.

PANSIES.—I can still supply a few of those seedling plants at $5.00 per 1000, or 75 cts. per 100. The same good strain I always have.

No list published and terms are cash before shipping or C. O. D.

L. B. 496. **ALBERT M. HERR, LANCASTER, PA.**

IN BLOOM The new and beautiful Fancy Carnation "HELEN KELLER"

We extend a cordial invitation to Carnation growers to come and see it growing and blooming. This grand new variety must be seen to be appreciated. It is undoubtedly the

GREATEST NEW CARNATION UP TO DATE!

It is healthy and productive. In form, size and elegance, nothing can approach it. Two houses filled with this sterling novelty are worth going many miles to see—one at Summit; one at Chestnut Hill.

COME AND SEE IT GROWING.

Orders booked now and filled strictly in rotation, commencing March 15, '94. Strong Rooted Cuttings, $3.00 per Dozen; $12.00 per Hundred; $90.00 per Thousand.

EDWIN LONSDALE, CHESTNUT HILL, PHILA.
JOHN N. MAY, SUMMIT, N. J.

COLEUS.

A large stock, in 75 varieties, including the very newest kinds.

ROOTED CUTTINGS, in 30 to 40 varieties, at $6.50 per 1000 by express; in 20 varieties, at $1.00 per 100 by mail.

Golden Bedder (true), at $10.00 per 1000; **Verschaffeltii, Golden Verschaffeltii, Mrs. I. D. Haight** and other yellows at $8.00 a 1000. **NEW KINDS,** including some of the most handsome ever offered for sale, in 10 varieties, at $2.00 per 100 by mail.

STOCK PLANTS, ordinary kinds at $3.00 per 100; Verschaffeltii and yellows, at $4.00 per 100.

Cash with Order. Safe delivery guaranteed.

CARNATIONS.

ROOTED CUTTINGS of new and leading kinds.

We make a Specialty of **BUTTERCUP** and **STANLEY,** of which we have a large stock. $5.00 per 100; $45.00 per 1000. Plants all in prime condition, and an inspection solicited.

Send for circular of both **Coleus and Carnations.**

W. R. Shelmire,
. . . **AVONDALE, PA.**

FOR EARLY CASH ORDERS.

	Per 100	Per 1000
Hardy Day-blooming Moonflower.... ...	$3.00	$
Achillea "Pearl," rooted cuttings for spring bloom, mail.....	1.00	7 50
Coreopsis lanceolata, spring bloom, mail..	1.50	10.00
Eulalia gracillima, good roots.....	3 00	
Hibiscus Crimson Eye, bloom this season.	4.00	
Hemerocallis, double, transplanted.....	2.00	15.00
Iris Kæmpferi, choice mixed, from named sorts....	4.00	
Same, choice named sorts.....	8 00	
Teas' Japanese Hybrid Catalpa, strong, mailing size.....	2.00	
Double Tiger Lily, blooming bulbs.....	2.00	
Yucca filamentosa, 2 years.....	4.00	
" Angustifolia, rare and fine, doz. $2.		
Ipomœa paniculata, strong.....	6.00	
" " nice mailing size.....	4.00	
" " from pots for planting out	2.50	
Oxalis Deppei alba, for summer borders..		2.00
" " rosea, " "		10.00
" Enneaphylla purpurea " "		3.00
" Lasiandra, palmate leaves, crimson flowers.....	1.50	
Tritoma uvaria.....	3.00	
Tuberose Albino, branching, orange flow'd	5.00	
" variegated leaved, " "	2.50	
Stapelia variegata.....	4.00	
Night-blooming Cereus.....	5.00	

Lists FREE. **E. Y. TEAS,**
Irvington, near Indianapolis, Ind.

VERBENAS, MAMMOTH, perfectly clean, strong plants, $2 per 100. **Transplanted Cuttings,** $1.00 per 100. **Rooted Cuttings,** $6.00 per 1000. All to color. Cash.

W. B. WOODRUFF, Florist, Westfield, N. J.

Daybreak Carnation

A visit from several prominent florists of the State, has convinced me that I have the healthiest stock of the above beautiful carnation in this State. Before leaving my establishment they left orders for Daybreak at $2.50 per 100, and $20.00 per 1000.

I shall have, about Feb. 5th, 50,000 well Rooted Cuttings at the following prices:

$2.50 per 100; $20.00 per 1000.

Terms strictly cash. My customers will please take notice that I cannot accept personal checks. Satisfaction guaranteed.

FRED SCHNEIDER, Wholesale Florist,
ATTICA, Wyoming Co., N. Y.

DAYBREAK, NANCY HANKS And GARTLEDGE.

NOW READY.

FINE, CLEAN, HEALTHY STOCK. SPECIAL PRICES to large buyers of these splendid Carnations.

Address **H. E. CHITTY, Paterson, N. J.**

PALMS.

150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

Address **GEORGE WITTBOLD,**
1708 N. Halsted St., CHICAGO.

Verbenas

SPECIAL OFFER.

	Per 100	Per 1000
Unsurpassed Mammoths, 2¼-inch pots....	$3.00	$25.00
" " rooted cuttings,	1.25	10.00
Genera collection, named, " "	1.00	8.00
" " " 2¼-inch pots...	2.50	20.00
H. P. Roses, dormant, strong.....	6 00	75.00
Tea " " "	6.00	50.00
Forcing " 3-inch pots, "	6.00	50.00

WOOD BROTHERS,
Fishkill, N. Y.

ROOTED CUTTINGS, now ready.

	Per 100
ROSES—Perle, La France, Gontier Niphetos, Mermet, Bride, $1.25 per 100; $10.00 per 1000.	
CARNATIONS—McGowan and Silver Spray.....	$1.25
Lamborn, Am. Flag, Portia.....	1.00
Daybreak	2.50

Add 10c. for mail. Cash with order.

J. J. LAMPERT, Xenia, Ohio.

4 NEW CARNATIONS
FOR 1894.

UNCLE JOHN, white; **THE STUART**, scarlet;
E. A. WOOD, pink variegated;
GOLDFINCH, yellow edged pink.

$10.00 per 100; $75.00 per 1000. Ready April 1st.

Get our 1893 varieties from **Headquarters.** We have extra fine stock of Wm. Scott, (the most profitable pink carnation grown); Mme. Diaz Albertini, Eliz. Reynolds, Richmond, and all the others of our set.

Do not forget to order some Major Bonnaffon, the most perfect Yellow Chrysanthemum ever introduced for show as well as market purposes.
Send for price list.

F. DORNER & SON, La Fayette, Ind.

GRAND CARNATIONS

ROOTED CUTTINGS.

	Per 100	Per 1000
WM. SCOTT, fine clear pink	$5.00	$40.00
GOLDFINCH, yellow, edged pink, strong, healthy, very free	10.00	75.00
HELEN KELLER, white marked pink	12.00	90.00
ANNIE PIXLEY, light pink, fine	12.00	90.00
UNCLE JOHN, large, fine white	10.00	75.00
THE STUART, brilliant scarlet, good.	10.00	75.00
E. A. WOOD, pink variegated, fine.	10.00	75.00
DORNER'S SET OF 1893.	5.00	40.00

Daybreak, Edna Craig, Tidal Wave, Thos. Cartledge, Silver Spray Emily Pierson, Puritan, Nancy Hanks, McGowan, and all the other leading varieties.

LARGE STOCK READY NOW.
Send for prices.

GEO. HANCOCK & SON,
GRAND HAVEN, MICH.

SWEETBRIER

Received 1st Premium for "best seedling of any color" at Phila., Nov. 7, '93. Color between Daybreak and Wilder.

Flowers brought $5.00 per 100 wholesale, at J. R. Freeman's, Washington, last winter.

"I like its color better than Daybreak."
EDWIN LONSDALE,

"Sweetbrier is all that can be desired."
W. A. MANDA.

Rooted cuttings, $10 00 per 100; $80.00 per 1000. Delivery to begin February 1, '94.

VIOLET LADY CAMPBELL.

ROOTED RUNNERS, $3.00 per 100; $25.00 per 1000.
Send for price list.

EDW. SWAYNE,
KENNETT SQUARE, PA.

CARNATIONS

Rooted Cuttings, Now Ready.

	Per 100	Per 1000
DAYBREAK	$3 00	$25 00
BUTTERCUP	4 00	35 00
PURITAN	2 00	15 00
SILVER SPRAY	1 50	10 00
LIZZIE McGOWAN.	1 50	10 00
GRACE WILDER	1 50	10 00
PORTIA	1 50	12 00

Cash with order. 10c. per 100 extra when ordered shipped by mail.

Send for wholesale price list of Rooted Cuttings and Plants.

JAMES HORAN, Florist, Bridgeport, Conn.
Mention American Florist.

ROOTED CUTTINGS OF
CARNATIONS

For Immediate Delivery.

Large stock on hand; free from rust or other disease. Satisfaction guaranteed. Send for price list.

JOS. RENARD, UNIONVILLE, Chester Co., PA.

CARNATIONS

Ready February 15th.

DAYBREAK..... $2.50 per 100
SILVER SPRAY, McGOWAN, HECTOR, LADY EMMA, GARFIELD, PORTIA, TIDAL WAVE..... $2.00 per 100

Stock free from disease. Order now or you wont be in it.

LAKE GENEVA FLORAL CO., Lake Geneva, Wis.

Carnations==Panic Bargains

	Per 1000		Per 1000
Lady Emma or Portia	$ 10.00	Puritan	$ 15.00
White Dove	10 00	Pearl	20.00
Lizzie McGowan	10.00	Edna Craig	20.00
Schaffer	10 00	Daybreak	20 00
Grace Wilder	10.00	Thos. Cartledge	20.00
Mrs. Robt. Hitt	10.00	Mayflower	20.00
Grace Darling	10.00	Hector	20.00
White Wings	10.00	Amy Phipps	25.00
Crimson Coronet	10.00	Blanche	25.00
Golden Gate	10.00	Mrs. E. Reynolds	25.00
American Flag	10.00	Richmond	25.00
Attraction	15.00	Wabash	25.00
J. J. Harrison	15.00	Western Pride	25.00
Aurora	15 00	Dr. Smart	25 00
Louise Porsch	15.00	Purdue	25 00
Nellie Lewis	15.00	Florence Van Reyper	25.00
Orange Blossom	15.00	Buttercup	35.00
Tidal Wave	15.00	New Jersey	25.00

ROOTED CUTTINGS OF VERBENAS, $7.00 per 1000.

Strictly Cash with order. Orders filled in rotation.

ESSEX HEIGHTS FLORAL CO., BELLEVILLE, N. J.

"COME AND SEE THE BOYS"
—AND—
THE YELLOW CARNATION BOUTON D'OR.

After growing this variety for the past three winters we are convinced that it is the best Yellow Carnation ever introduced.

LISTEN TO THE CRITICS! After viewing a house, W. Albert Manda says:
"Bouton d'Or is certainly a good grower and free bloomer; a variety one can recommend with pleasure. I like it better than Buttercup."

SAMUEL HENSHAW: "Bouton d'Or is just the one we have been looking for, and is the nearest approach to the ideal carnation in its color yet introduced. The color is a clear canary penciled with carmine, firm texture, a full large flower—one just measured is three inches in diameter—exceedingly prolific as a bud maker; stems stout with clean, healthy foliage. I congratulate you in disseminating so grand a flower."

PRICE, $2 per Doz.; $10 per 100; $75 per 1000. ROOTED CUTTINGS READY MARCH 1, 1894.
Orders filled in strict rotation. Come and see it grow and be convinced. Only one hour from New York City.

Dailledouze Bros., Flatbush, L. I., N. Y.

"JACQUEMINOT" CARNATION
WILL BEAR INSPECTION.

Read up that ad. in AMERICAN FLORIST of January 18th. Send for samples and circular. Orders filled strictly in rotation. Rooted Cuttings ready Feb. 20th.

PRICE, per dozen $2.00; per 100 $10.00; per 1000 $80.00.
TERMS: Cash with Order.

PETER FISHER & CO., ELLIS, Norfolk Co., MASS.

Rooted Cuttings. CARNATIONS. Rooted Cuttings.

ALL THE BEST VARIETIES IN CULTIVATION.

FINE STOCKS OF DAYBREAK, EDNA CRAIG AND CARTLEOGE.

NO DISEASE! NO RUST!

Catalogues ready January 1st, '94. Correspondence solicited.

Address **H. E. CHITTY, Paterson, N. J.**

Carnations.

Field plants all sold.

Orders solicited for early delivery of ROOTED CUTTINGS in varieties suitable for summer blooming.

C. J. PENNOCK,
The Pines. KENNETT SQUARE, Chester Co., PA.

50,000 Carnations.

ROOTED CUTTINGS READY.
NO "RUST."

SEND FOR LIST. - - -

Wm. Swayne,
P. O. Box 226. KENNETT SQUARE, PA.

Rooted Cuttings.

Carnations, Chrysanthemums, Coleus, Etc.

Standard varieties and novelties. At prices to suit the times. Send for list.

JOHN J. CONNELLY, Bryn Mawr, Pa.

CARNATIONS.

Strong, healthy, well rooted cuttings now ready.

SAMUEL J. BUNTING,
Elmwood Ave. and 58th St., PHILADELPHIA, PA.

CARNATIONS AND VERBENAS.

ROOTED CUTTINGS.

We have a large stock of Daybreak, Puritan, Edna Craig, Aurora, McGowan, Nellie Lewis, and other leading varieties. Also immense stock of Mammoth Verbenas.

Send for prices on what you want. Catalogue ready about January 15th. Send for it.

VICK & HILL, Rochester, N. Y.

CHOICE SEEDS.

PETUNIA FIM. FL. PL.

The largest and finest strain of double fringed and mottled Petunias to be had. All who see these Petunias say they are the finest they ever saw. Selected specially for florists. Extra size and fine colors.
Trade Packet 25 cts.; 3 pkts. 60 cts.; 6 pkts. $1.00.

JOHN F. RUPP, Shiremanstown, Pa.

Fresh Information About the Violet.

What a source of fun the daily papers are when they attempt to cover subjects pertaining to the trade! Is the rest of their news (?) equally reliable? The following from the San Francisco *Chronicle* is certainly very rich:

Few people would want to pay $2,000 for thirty-two violet plants, yet that is what a local florist sold that many roots for, and he does not think he was overpaid, either. As may be supposed, the violets are curiosities.

They are the outcome of years of patient hybridizing. Only violets of one gender grow on a plant. This renders them capable of being experimented with successfully. The big, bold, double violet is the male flower. The demure single blossom is the female. From the double flower the pollen is carefully cut and placed in the cup of the single blossom. Only one blossom in a hundred of those artificially treated will produce seed. This seed is then planted, and the resultant violet is again hybridized with some other remarkable specimen.

Sometimes odd colors are obtained; sometimes odd form. A year ago a local nurseryman produced a violet giant. It was four times larger than the ordinary flower and grew on a stem from twelve to fifteen inches long. The plant on which these remarkable blossoms grew sprang up from one of the seeds resulting from a long series of hybridizing. It was subdivided, and now there are thirty-two plants.

These were purchased a few days ago by a city florist for $2,000. An iron-bound contract prevents the propagator from giving away, selling or keeping a single rootlet. A nursery will be started in a neighboring county, to be devoted to multiplying the peculiar plant. None of the plants or blossoms will be sold for two years, by which time the thirty-two roots will have grown to four or five millions. The violet has been named the "Tiburcio Parrot," after the well known capitalist.

R. W. CARMAN, Flushing, L. I.

Dear Sir:—Please send us by Star Union Line Freight (Pennsylvania Line), another 5 gallon can of Little's Antipest. We are not yet out, nor do we want to get out of it, for we think it indispensable and have sent you several customers by recommending it. Please hurry it through.

Very truly yours,
THE GOOD & REESE CO.

BROOKLYN, N. Y., Jan. 15, 1894.

R. W. CARMAN,

Dear Sir:—Please send me 2 gallons of Little's Antipest. Have used your Antipest with great results last season. I was troubled considerably with the large black ants in Greenwood Cemetery, but by using your Antipest drove them all off. Have also used it on all kinds of soft and hard wooded plants, with the best results. I would also suggest to you to send circulars of your Antipest to the different Supt. of cemeteries, also to florists who attend to plots in the cemeteries, as it will save them trouble and annoyances from the black ants who destroy plants and mounds.

Yours truly, CHAS. KROMBACH.

ROOTED CUTTINGS. Per 100

Alternantheras, Versicolor, Rosea nana, Aurea nana, Tricolor and P. Major	$.50
Coleus of sorts, mixed	.50
" best new and old, named	1.00
Parrots Feather, and Fuchsias	1.00
Mexican Primroses, 3 kinds	1.00
Heliotrope	1.00
Fittonia, red veined, $2.00; silver veined	1.50

PLANTS.

Alternantheras, full of cuttings	3.00
Begonias, assorted; Lantanas, assorted	4.00
Fuchsias, ass't; Heliotrope, ass't, $3.00 and	4 00
Abutilons, assorted	4 00
Echeveria glauca $2.00 and	3.00
" Extensa globosa, 6 to 12 in. across 25 & 50c. ea.	
Achyranthus, assorted	3.00
Coleus, assorted, $2.00 and	3.00
Hibiscus, assorted	4 00
" Schizopetalus	6.00
Anthericum picturatum, per dozen, 75c.	
Ivy and Bronze Geraniums, assorted, 2½-in. pots	4.00

ROBT. S. BROWN & SONS,
Box 99. KANSAS CITY, MO.
Mention American Florist

FLORAL DESIGNS
The Cut Flower Worker's Friend. Fine book of 160 pages. Send $3.50 for it, to
J. HORACE McFARLAND, Harrisburg, Pa.

BUSINESS. BUSINESS.
— AT —
HARD-TIME PRICES.
Send for Special Spring Import List of
DWARF-BUDDED AND TREE ROSES, CLEMATIS, ETC.
GROWN BY THE
Boskoop Holland Nursery Association.
THE PRIZE WINNERS AT WORLD'S FAIR, CHICAGO. SPECIAL PRICES.
Address **C. H. JOOSTEN, Agent, 3 Coenties Slip, NEW YORK.**

READ WHAT FOSTITE IS DOING FOR THE FLORIST against Mildew on Roses, and Carnation Rust

"We are highly pleased with your Fostite and Bellows. *No investment ever paid me better. Not a speck or spot of Mildew on the place.*"
Signed, ALBERT KNOPF, President Franklin Park Floral Co., Columbus, O.

IN THE FRONT RANK!
NEW WHITE CHRYSANTHEMUM
"MUTUAL FRIEND"
It is sure to be a prize winner and a leading variety for '94.

FIRST PRIZE and CERTIFICATE of MERIT MASS. HORT. SOCIETY, '93.

Orders booked now for March delivery, 50c. each; $4.00 per dozen. At these prices all should try it. We know it will please. Send for descriptive circular.
MANN BROS., Randolph, Mass.

New Chrysanthemum, MRS. J. GEO. ILS,
A CALIFORNIA SEEDLING.
Flowers sent from San Francisco to the Chicago Show awarded a MEDAL.

A grand white, of remarkable substance, size and depth of flower. See Illustration in AMERICAN FLORIST of November 16th. The very vigorous habit, and our large stock of this novelty, enables us to assure the trade of good plants, and to guarantee safe arrival. To be sent out the 1st of March, 1894, at the following prices to the trade:

75 cents each; $7.50 per 12 plants; $14 per 25 plants; $25 per 50 plants; $40 per 100.
ORDERS BOOKED NOW BY
JOHN H. SIEVERS, 25 Post St., SAN FRANCISCO, CAL.

Hard Time Prices.
STOCK PLANTS.
GEO. W CHILDS, WABAN, MRS. L. C. MADEIRA, VIVIAND-MOREL, V. H. HALLOCK, JESSICA, J. C. VAUGHAN, AMI HOSTE, DIANA, at $1.00 per dozen.
Cash with Order.
SOUTH SIDE FLORAL CO., Springfield, Ill.

ROOTED CUTTINGS.
Chrysanthemums AND Carnations.
Write for list and prices. Prices to suit the times.
Address J. G. BURROW, Fishkill, N. Y.

ROOTED CUTTINGS
GOOD ONES.

Verbenas, 23 varieties	90c. per 100; $8.00 per 1000	
Heliotrope, 7 varieties	per doz.	20 cts.
Fuchsias, 12 varieties	"	20 cts.
Cigar Plant and Lopezia	"	20 cts.
Giant Alyssum and Marguerite Daisy	"	20 cts.
Manettia Vine, Mex. Primrose & Sultana	"	25 cts.
Red, White & Blue Plant (Cuphea Llavæ)	"	30 cts.

Chrysanthemums, 20c. Coleus, 12c. Postage 1c. a doz.
Send for catalogue. I. L. PILLSBURY, Macomb, Ill.

CHRYSANTHEMUMS
— AND —
CARNATIONS.
Send for trade list.
NATHAN SMITH & SON,
167 W. Maumee St., ADRIAN, MICH.

STOCK CHRYSANTHEMUMS.

Pres. W. R. Smith, best pink 1893	each 40c
The Queen, best white 1893	" 50c
Niveus, fine white	" 40c
Golden Wedding, extra yellow	" 35c
A. T. Ewing and Alba Venus	" 25c
And a host of standard sorts	" 15c

BROWN & CANFIELD, Springfield, Ill.

MARSHALL STRAWBERRY. Latest Novelty for 1894. Magnificent fruit. Largest and finest ever grown. 14 berries fill a quart. Took First Five Prizes from Mass. Hort. Society, Boston, in 1892, and again in 1893. Deep red, solid, delicious flavor. Flower perfect. $2.50 per 12; $16 50 per 100 postpaid. Priced catalogue of Strawberries and all Decorative Hardy Plants, Shrubs and Trees at low rates, sent free. Large stock. H. M. WATSON, Old Colony Nurseries, PLYMOUTH, MASS.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

Why Buy from

BAYERSDORFER?

BECAUSE

He handles goods of only the best

QUALITY.

When your order is received it is filled

PROMPTLY.

You get just what you order, and at

FAIR PRICES.

If you are not already his customer

TRY HIM.

If you try him once, you are sure to

STAY.

His address is

H. BAYERSDORFER & CO.,

56 N. 4th St.,

PHILADELPHIA, PA.

☞ WHOLESALE ONLY. . . .



WHITE DOVES

FOR FLORISTS.

Largest and finest stock in the United States. Write for prices to

S. J. RUSSELL,

850 Montgomery St., Jersey City, N. J.

FOR SALE BY:—A. Hermann, F. E. McAllister, Reed & Keller, N. Steffens, New York; W. C. Krick, Brooklyn, N. Y.; H. Bayersdorfer & Co., Phila; J. M. McCullough's Sons and H. L. Sunderbruch, Cincinnati, O.; J. M. Gasser, Cleveland, O; D. B. Long, Buffalo, N. Y.; J. C. Vaughan, Chicago; Wisconsin Flower Exchange, Milwaukee; Wm. Ellison, St. Louis; Ed. S. Schmid, Washington, D. C.; G. W. Correy & Co., Nashville, Tenn.; T. W. Wood & Sons, Richmond, Va.; U. J. Virgin, New Orleans, La.

MARSCHUETZ & CO.,

Florists' Supplies,

23 & 25 N. 4th St., PHILADELPHIA, PA.

Send for Catalogue.

HUNTINGTON SEED CO.

Florists' : Supplies,

66 E. WASHINGTON ST.,

INDIANAPOLIS, IND.

Standard Flower Pots, Dried Grasses, Fancy Baskets Metal Designs. Trade Catalogue mailed free.

Florists Just What you Want.

Save your property from FIRE, and your STOCK from FREEZING, by using the ELECTRICAL THERMOSTAT, and FIRE ALARM ATTACHMENT.

We have both in use for some time, and would not be without them. Send for circular and price list to

PAUL BUTZ & SONS, Florists, NEW CASTLE, PA.

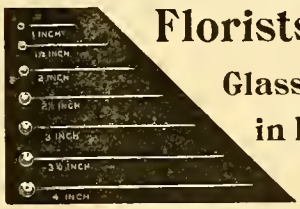
Supplies of all Kinds, such as Immortelles, Cape Flowers, paper pressed Hartford and Maidenhair Ferns, Wheat Sheaves, Flower Baskets, Pot Holders, Plant Stands, Fern Dishes, etc., etc.; all quoted **in our beautifully and richly illustrated new Trade List** mailed free. Also

Metal Designs, the best winter cemetery decoration, in rich assortment of tasteful designs: Wreaths, Crosses, Anchors, Hearts, etc., in green or white foliage.

Cycas Leaves, (Sago Palm), **natural prepared,** equal to fresh cut in appearance, according to size at 40c., 45c., 50c., 60c. and 75c. each.

August Rolker & Sons,

136 & 138 W. 24th St., P. O. Station E. **New York.**



Florists' Pins

Glass Heads, in Black or White.

PRICES:

1, 1½, 2, 2½, 3, 3½, 4 inches,

50c, 75c, $1.00, $1.25, $1.50, $1.75, $2.00 per 1000

For Sale by

August Rolker & Sons, New York.
Wm. Elliott & Sons, New York.
H. Bayersdorfer & Co., Philadelphia.
N. F. McCarthy & Co., Boston.
E. H. Hunt, Chicago.
J. C. Vaughan, Chicago.
Huntington Seed Co., Indianapolis, Ind.
W. Ellison, St. Louis.
E. W. Crook, San Francisco.
J. A. Simmers, Toronto, Ont.
Edw. Mullin, Kingston, Ont.

AUG. F. BRABANT, Manufacturer,

54 Warren Street, NEW YORK.

Mention American Florist.

BOSTON FLORIST LETTER CO.,

13 Green Street, BOSTON, MASS.

Address all correspondence to 1 Music Hall Place.

Manufacture THE BEST LETTERS IN THE MARKET.

Sizes 1½-inch and 2-inch, $2.00 per 100. Patent fastener with each letter.

With orders for 500 letters we give away a nicely stained and varnished box. See cut in next week's American Florist.

Our letter is handled by all the wholesalers in Boston.

AGENTS: A. Rolker & Sons, New York; Marschuetz & Co., 25 N. 4th Street, Philadelphia, Pa.; F. E. McAllister, 22 Dey St., N. Y.; Ernst Kaufmann & Co., 113 N. 4th St., Philadelphia, Pa.; H. Bayersdorfer & Co., Philadelphia, Pa.; A. D. Perry & Co., 33 Warren St., Syracuse, N. Y.; A. C. Kendal, 115 Ontario St., Cleveland, O.; E. H. Hunt, 79 Lake St., Chicago; Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.; H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.; T. W. Wood & Sons, 6th and Marshall Sts., Richmond, Va.; Jas. Vick's Sons, Rochester, N. Y.; Dan'l B. Long, Buffalo, N. Y.; C. A. Kuehn, St. Louis, Mo.; C. F. Huntington & Co., Indianapolis, Ind; Z. De Forest Ely & Co., 1024 Market St., Philadelphia, Pa.; Portland Seed Co., 171 2nd St., Portland, Oregon; A. Herrman, 415 E. 34th St., New York; Geo. A. Sutherland, 67 Bromfield St., Boston; Welch Bros., No. 1A Beacon St., Boston; N. F. McCarthy & Co., 1 Music Hall Place, Boston. J. A. Simmers, Toronto, Ont., Agent for Canada.

Medal Awarded

at World's Columbian Exposition to

ERNST KAUFMANN & CO.,

113 N. 4th St., Philadelphia, Pa.

FOR

METALLIC DESIGNS, WHEAT SHEAVES, CELLULOID BASKETS AND POT COVERS, and all Florists' Supplies.

Sphagnum Moss.

65c. per bale in car lots; 70c. per bale in less than car lots. F. o. b. Mather. Cash to accompany small orders; usual terms on large orders. Good sized bales and moss of good quality.

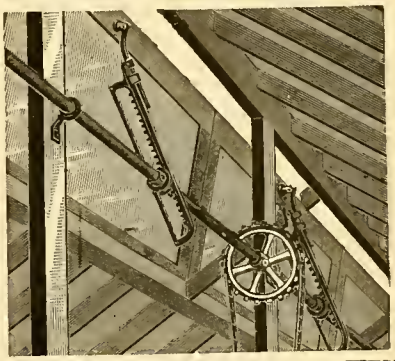
G. A. MARVIN, Mather Wis.

SEE HERE

BROTHER

FLORIST!

Aren't you tired going through your houses two or three times a day year after year and lifting your ventilating sash one at a time and propping them up with sticks or pots, with a chance of having sash blown off and broken glass to pay for? If you are



We have got just the thing you need, the NEWEST and BEST thing out. "The New Departure" for about half the cost of the old style. Send for Descriptive Catalogue to

J. D. CARMODY, Evansville, Ind.

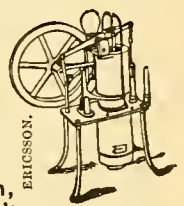
WATER

For Your GREEN HOUSE, ROSE HOUSE, NURSERY,

Conservatory, Lawn, House, Garden, Stock or any other purpose.

Send for Illustrated Catalogue OF THE

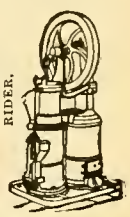
DE LAMATER-RIDER AND DE LAMATER-ERICSSON PUMPING ENGINE.



HOT-AIR PUMPING ENGINE.

Their operation is so simple and safe that a child can run them. They will pump water from shallow streams or any kind of well. They can be arranged for any kind of fuel.

Capacity 1,500 to 30,000 gallons of water a day, according to size.



The De Lamater Iron Works,

87 South Fifth Avenue,

NEW YORK, N. Y.



W. C. KRICK'S

PATENT

Florists' Letters, Etc.

Highest award wherever exhibited.

These Letters are made of the best immortelles, wired on wood or metal frames having holes drilled in them to insert toothpicks, by which to fasten them in the design. All infringements prosecuted.

2-inch Letters, $3.00 per 100. Postage, 15c. per 100.

Before purchasing send for free sample and Catalogue and compare with any other letter in the market.

W. C. KRICK, 1287 Broadway, BROOKLYN, N. Y.

Agents:—J. C. VAUGHAN, Chicago, Ill.; H. BAYERSDORFER & CO., Phila., Pa.; N. STEFFENS, N. Y.; AUG. ROLKER & SONS, N. Y.; ED. S. SCHMID, Washington, D. C.; JAMES VICK'S SONS, Rochester, N. Y.; T. W. WOOD & SONS, Richmond, Va.; J. A. SIMMERS, Toronto, Ont.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

A "Wonderful Discovery."

Copies of a circular issued by a Texas gentleman by the name of Murphy have been sent us by several readers. Following is the text of this remarkable document:

MURPHY'S WONDERFUL DISCOVERY!
THE "RESURRECTION PLANT" TEA.

Purifies the blood, prolongs life and cures stiffness in aged people.

The plant after being boiled several hours will serve as a flower or evergreen in the parlor.

Myself as well as others have thoroughly tested it and find it to act as above stated.

The tea acts as a very light purgative, and patients should govern themselves according to the effect upon the bowels.

DIRECTIONS FOR USING:—*Boil six medium sized plants in one-half gallon of water, reduce to one quart of tea. Take a tea cup full three times a day.*

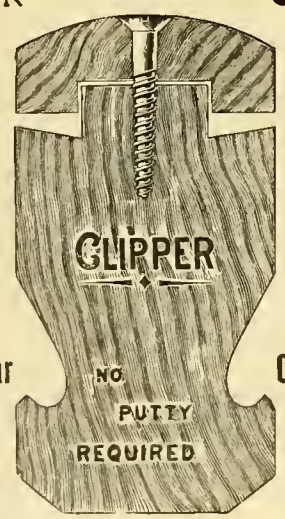
This plant will retain life by freezing as well as boiling and becomes green, and also is very palatable to use as a tea. Price two dollars per 100 plants aboard cars, and *cheaper* in larger *quantities* to dealers.

The fact that the plant "will retain life by freezing as well as boiling" gives the grower a good second chance of success. If he happens to have no facilities for freezing at the time he can always manage to arrange for boiling.

A Lovely Picture.

I tell yez, Jimmy looked too lovely for any think in his coffin. He had a harp o' lilies lyin' flat acrost his stummick, an' his hair wuz did up in ringlets wot come down to his neck. He died wid a smile on his mout' and his ears wuz washed wid bay rum an' filled wid violets.—*Life.*

LOCKLAND LUMBER CO.



Clear Cypress

MATERIAL FOR
GREENHOUSES.
Send for Circulars and Testimonials.
Address **LOCKLAND, O.**

CATALOGUE PRINTING. ELECTROTYPING.
Done with expert ability for Florists, Nurserymen, Seedsmen. Write to
J. Horace McFarland Co.
. . . HARRISBURG, PA.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

"Standard" Flower Pots.
As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address
The Whilldin Potterv Company,
BRANCH WAREHOUSES: 713, 715, 717 & 719 Wharton St., Philadelphia, Pa.
Randolph Ave. and Union St., Jersey City, N. J.
Jackson Ave. and Pearson St., Long Island City, L. I.

STANDARD FLOWER POTS
Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.
A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.
We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.
Send for price list and samples and we know you will give us an order.
SYRACUSE POTTERY CO. OFFICE: 403 North Salina Street, SYRACUSE, N. Y.

STANDARD FLOWER POTS.
OLD RELIABLE MAKE OF
ELVERSON, SHERWOOD & BARKER.
Write for Catalogue and Price List.
PITTSBURGH CLAY MFG. CO. New Brighton, Pa.

STANDARD FLOWER POTS
Our new **Pottery,** new **Machinery,** the very **best Clay** in the **Country,** and our new **Patent Kilns,** all combined, make the **best Standard Pot in the market.** Send for price list.
PARMENTER MF'G COMPANY,
GEORGE MESSINGER, Manager. **East Brookfield, Mass.**



Pat. 1882, '85, '86, '88, '90, '91.
FOR WATER, AIR, STEAM, ACIDS, OILS, LIQUORS, GAS, SUCTION,
And for any and every purpose for which a hose can be applied.
Sizes, ⅛-inch to 42 inches diameter.
The making, vending or use of any Serviceable Armored Wire Bound Hose not of our manufacture is an infringement on one or more of our Patents. The rights secured to us render each individual dealer or user responsible for such unlawful use with all the consequences thereof. For prices and discounts address WATERBURY RUBBER CO., Sole M'f'rs and Owners of all the *Sphincter Grip Armored Hose Patents,* 49 Warren Street, New York
J. C. VAUGHAN, Agent, CHICAGO.



PATENTS
TRADE-MARKS, COPYRIGHTS ETC.
CHANDLEE & MACAULEY,
ATLANTIC BUILDING
WASHINGTON, D. C.

Send orders for . .
CLEAR CYPRESS
Greenhouse Material
from bottom of gutter up.
Correspondence solicited. Estimates cheerfully furnished.
LYMAN FELHEIM, ERIE, PA
Mention American Florist.

BOXES. BOXES. BOXES.
Three-Piece Wood Mailing Box.
The neatest and strongest box on the market. Send 15 cts. in stamps for sample nest and price list. I also make Cut Flower and Express Boxes.
W. E. SMITH,
Successor to SMITH & SMITH,
Hardin County. **KENTON, OHIO.**
Mention American Florist.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

LITTLE'S ANTIPEST.

—A—

Valuable Discovery of the 19th Century.

SILVER MEDAL AWARDED

—BY THE—

CALIFORNIA STATE FAIR OF 1890.

This preparation is a sure destroyer of the **Scale, Wooly Aphis** and **Insect Pests** of any and all descriptions. It may be as freely used in the conservatory, garden and greenhouse as in the orchard or vineyard. It is non-poisonous and harmless to vegetation when diluted and used according to directions. It mixes instantly with cold water in any proportion. It is **Safe, Sure** and **Cheap.** No fruit grower or florist should be without it.

Send for Circulars and Price List.

R. W. CARMAN, General Agent,
291 AMITY STREET,
FLUSHING, Queens, Co., N. Y.

Mention American Florist

Increase Your Business

by fostering an interest in plants and flowers among the people in your vicinity. You can best do this by getting subscribers to

GARDENING . . .

which tells people how to get the most satisfaction out of their gardens, and stimulates them to enlarge and extend their gardening operations.

$1.00 A YEAR is the subscription price of this paper, which is issued twice a month, is handsomely and truthfully illustrated, is thoroughly practical, absolutely free from wind and gush and grinds no axes for anyone.

SPECIAL LOW RATE to florists who will act as agents. We want an agent in every city and town in America. Write for terms now to

THE GARDENING CO.
Monon Building, CHICAGO.

THE CHAMPION Automatic Ventilator.

The cheapest, easiest to operate, and by far the best machine in the market. Don't buy a Ventilator until you have seen my illustrated descriptive circular, which will be sent you free, giving prices, etc. Also **Champion Soil Pulverizer and Sifter.**

Address, **E. E. WOLF,**
Box 114. SPRINGFIELD, O.

YOU CAN SAVE MONEY BY PURCHASING, AND GLASS BY USING

Hamilton's Patent Sash Lifter

The best thing of the kind ever invented for greenhouse use. Send for description and price list.

BAY STATE HARDWARE CO.,
272 Freeport Street, BOSTON, MASS.

D. H. ROBERTS,
159 & 161 South Fifth Ave., New York.

NATURAL GAS MADE GLASS,
for Rose Houses, Conservatories, etc., etc.

THE PERFECT DRAINAGE

BENCH TILE

For circulars, etc., address
W. P. WIGHT, Upland Greenhouses,
Send your business card. MADISON, N. J.

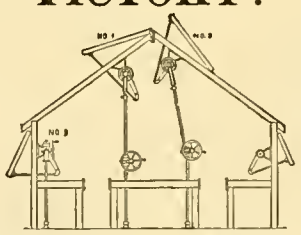
GLASS. ROCK BOTTOM PRICES Send for Estimate. Satisfaction Guaranteed.
REED GLASS CO.,
65 Warren St., and 46, 48 & 50 College Place,
New York City.

VICTORY! VICTORY! VICTORY!

The only Certificate of Merit awarded for ventilating apparatus at the St. Louis Convention was to the

POPULAR STANDARD VENTILATING MACHINE

The florist's friend in working and prices.



No repairs for 5 years. no chains to break as is the result with others.

Opens Sash uniform on 100 foot houses. A new device.

Send for Catalogue and Estimates.

E. HIPPARD, Youngstown, Ohio.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO.

NATURAL GAS MADE GLASS,

FOR GREENHOUSES.

Write for latest prices.

FRENCH GLASS For CONSERVATORIES, ROSE HOUSES, Etc. Etc.

VANHORNE, GRIFFEN & CO.,

Importers of PLATE and WINDOW GLASS. Manufacturers of BENT GLASS and FRENCH MIRRORS.

131-133-135-137 FRANKLIN STREET, NEW YORK.

Note—Imported Glass is used in the best grade of Greenhouse building

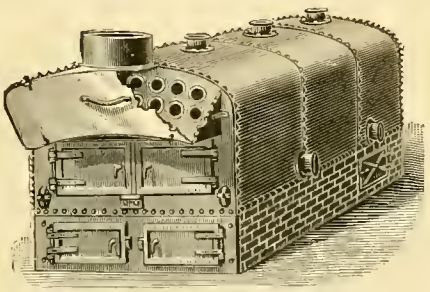
Mention American Florist.

Kroeschell Bros. Co.

IMPROVED

Greenhouse Boiler,

41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

When writing mention the AMERICAN FLORIST.

EVANS' IMPROVED

CHALLENGE VENTILATING APPARATUS

Write for Illustrated Catalogue.

QUAKER CITY MACHINE WORKS, Richmond, Ind.



GREENHOUSE HEATING

AND VENTILATING.

Superior Hot Water Boilers.

JOHN A. SCOLLAY,
74 & 76 Myrtle Ave., Brooklyn, N.Y.
☞ Send for Catalogue.

HAIL

LOCK THE DOOR BEFORE THE HORSE IS STOLEN.

DO IT NOW.

JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

STRING SMILAX

And other Trailing Plants with



JOHN C. MEYER & CO.,
13 Otis St., (off Summer), **BOSTON, MASS.**
For sale by all leading Florists' Supply Houses.

J. N. STRUCK & BRO.

Manufacturers of

• CYPRESS •

Greenhouse Material,

LOUISVILLE, KY.

GURNEY Hot-Water Heaters FOR Greenhouses.

Send for a copy of our book "How best to heat our houses."

GURNEY HOT-WATER HEATER CO.
163 FRANKLIN ST., BOSTON.

Branch Office: 59 Wabash Avenue, Chicago, Illinois. Selling Agencies: Johnson & Co., 71 John St., New York City. J. C. F. Trachsel, 246 Arch St., Philadelphia

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Index to Advertisers.

Abel C C & Co.....585 588
Adv. Rates, etc.....586
Baller F A 585
Barnard W W & Co....589
Bassett & Washburn 584
Bayersdorfer H & Co ..593
Bay State Hdw Co.....595
Bonsall Jos E & Son..584
Boston Letter Co . . .593
Brabant Aug F.....593
Brague L B.....586
Brown R S & Sons... 592
Brown & Canfield.....592
Bunting Samuel J 591
Burns & Raynor.....587
Burpee W Atlee & Co..588
Burrow J G.....592
Butz Paul & Sons 593
Cameron L.....588
Carman R W.... 595
Carmody J D..... 593
Chandlee & Macauley 594
Chitty H E.....590 591
Connelly John J.....591
Corbrey & McKellar..586
Currie Bros 588
Dailledouze Bros 591
Deamud J B & Co.....587
De Lamater Iron Wks.593
Dillon J L.... 585
Dorner Fred & Son.....591
Dreer H A 585
Elliott W H.....586
Ellison Wm.... 586
Ely Z De Forest & Co. 589
Essex Heights Floral Co.....591
Felbelm Lyman..... 594
Felthousen J E.....588
Ferry D M & Co.....589
Fisher Peter & Co.....591
Forstermann I. 584
Gardening Co The.... 595
Gregory J J H & Son...589
Griffith N S..... .585
Gurney Heater Co.....595
Hail Ass'n.....595
Hallock E V.... ... 585
Hancock & Son. 591
Hart James.....587
Hart & Crouse.....596
Hartford H E.....586
Herr Albert M.....590
Heyn A H & Co 594
Hill E G & Co.... 585
Hippard E.....595
Hitchings & Co.....596
Hooker H M Co..... 595
Horan Edw C..... .587
Horan Jas..... 591
Hulsebosch Bros 589
Hunt E H.... 587
Hunt M A..... 584 585
Hunter Frank D.....587
Huntington Seed Co....593
Jennings E B. 585
Johnson & Stokes' ...589
Joosten C H.....592
Kaufmann Ernst & Co.593
Kennicott Bros Co.....587
Knopff Oscar & Co.....589
Krick W C.....593
Kroeschell Bros Co....595
Kuehn C A.. 586
Lake Geneva Floral Co591
Lampert J J 590
La Roche & Stahl.....586
Lockland Lumber Co..594
Long Dan'l B.....586
Lonsdale Edwin.....590
Lord & Burnham Co...596
McCarthy N F & Co....587
McFarland J H.....592
McFarland J H Co.....594
MacBean A S.....590
Mann Bros.....592
Manz J & Co.....594
Marschuetz & Co.....593
Marvin G A.....593
May John N.....584 590
May L L & Co.....584
Meyer John C & Co . 595
Michel Plant & Bulb Co 589
Millang Bros.....587
Moninger Jno C 596
National Plant Co.....586
Neff L I.....586
Oelschig A C.....586
Ouwerkerk P.....588
Parmenter Mfg Co.....594
Pennock C J.... 591
Pennock Sam'l S.....586
Pierson F R Co.....585
Pillsbury I L..... 592
Pittsburg Clay Mfg Co.594
Quaker City Mach Co..595
Randall A L 587
Reed Glass Co.....595
Reed & Keller.... 584
Reinberg Bros..... 587
Reimschneider Ernst..588
Renard Joseph.....591
Roberts D H.....595
Roehrs Theo.....587
Roemer Fred... 585
Rolker A & Sons.....593
Rupp John F.....591
Russell S J.. 593
Sander & Co 584
Schneider Fred.....590
Scollay John A. 595
Sebire P & Sons.....585
Shelmire W R.....590
Sheridan W F.....587
Siebrecht & Wadley....584
Sievers John H. 592
Situations, wants.....583
Smith W E.....594
Smith Nathan & Son....592
South Side Floral Co..592
Spooner Wm H.....584
Stemmler T W.....584
Streby S O 590
Struck J N & Bro.....595
Sunderbruch H L.....586
Sunset Seed & Plant Co589
Sutherland Geo A.....586
Swayne Edward.....591
Swayne Wm.....591
Syracuse Pottery Co...594
Teas E Y.....590
Toole Wm.....584
Tricker Wm.....584
United States Nurs's..587
Van Horne Griffen & Co 595
Vaughan J C.....588
Vick & Hill.....591
Waterbury Rubber Co.594
Watson B M..... 592
Weathered's Sons T W.596
Weeber & Don.....589
Welch Bros 587
Whilldin Pot Co ..594
Wight W P.. 595
Wittbold Geo. ge.....590
Wolf E E 595
Wood Bros.. 590
Woodruff W B.....590
Young Thos Jr.....587
Zirngiebel D 588

ASHEVILLE, N. C.—The Idlewild Floral Co. have added to their glass since last summer.

PUEBLO, COLO.—G. Fleischer has bought the Broadway Floral Conservatory, 214 Broadway, Mesa.

CYPRESS GREEN HOUSE MATERIAL

CLEAR

CYPRESS

SASH

BARS

CUT BED AND VENTILATING SASH

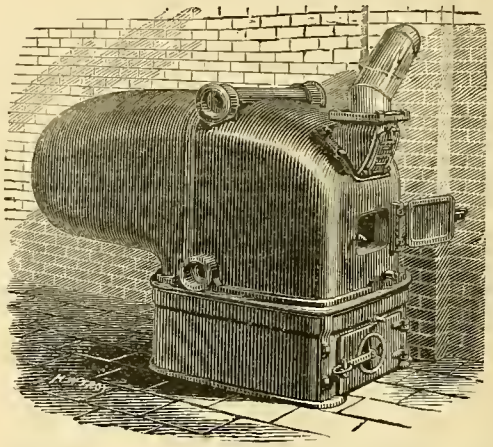
JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

Mention American Florist.

GreenhouseHH
Mass Agri Col
15 Dec 94

GREENHOUSE HEATING AND VENTILATING

Horticultural Architecture and Building.



HITCHINGS & CO.

Established 1844.

233 Mercer St., NEW YORK.

FIVE PATTERNS OF BOILERS.

NINETEEN SIZES.

Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc., of Iron Frame Construction, Erected complete, or the Structural Iron Work shipped ready for erection.

Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Top.

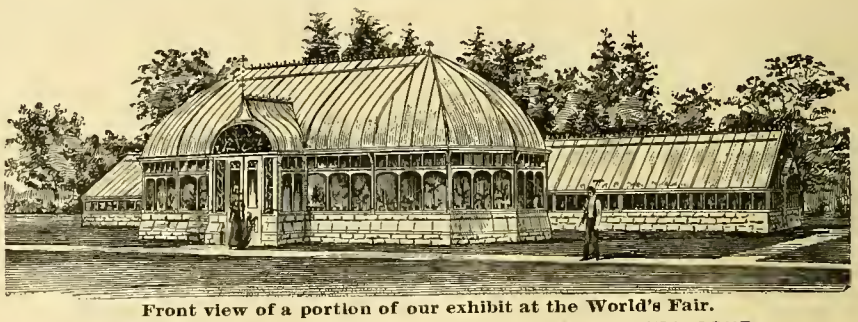
SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.

LORD & BURNHAM CO.

Horticultural Architects and Builders,

STEAM AND HOT WATER HEATING ENGINEERS.

☞ Plans and estimates furnished on application.



Front view of a portion of our exhibit at the World's Fair.

. . . SEND FOUR CENTS POSTAGE FOR ILLUSTRATED CATALOGUE. . . .

LORD & BURNHAM CO., Irvington-on-Hudson, N. Y.

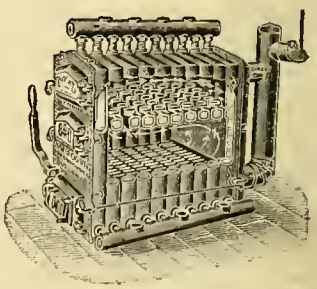
SOLD ON THEIR MERITS AND NOT ON THEIR ANTIQUITY.

ROYAL HEATERS

THE RIGHT KIND of BOILER for a GREENHOUSE.

HART & CROUSE,

UTICA, N. Y.



Meotion American Florist.

THOS. W. WEATHERED'S SONS,

INCORPORATED.

Horticultural Architects and Hot Water Engineers

Send for Catalogue, enclosing 4 cents in stamps.

No. 244 Canal St., NEW YORK CITY.

THE AMERICAN FLORIST

A WEEKLY JOURNAL FOR THE TRADE

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. IX. **CHICAGO AND NEW YORK, FEBRUARY 8, 1894.** **No. 297**

MASSACHUSETTS AGRICULTURAL COLLEGE

THE AMERICAN FLORIST

Copyright 1894, by American Florist Company. Entered as Second-Class Mail Matter.

PUBLISHED EVERY THURSDAY BY

THE AMERICAN FLORIST COMPANY.

Subscription, $1.00 a year. To Europe, $2.00.

Address all communications to

AMERICAN FLORIST COMPANY,

322 Dearborn Street, CHICAGO.

Eastern Office: 67 Bromfield St., Boston.

SOCIETY OF AMERICAN FLORISTS.

J. T. ANTHONY, Chicago, president; ROBERT KIFT, Philadelphia, vice-president; WM. J. STEWART, 67 Bromfield St., Boston, Mass., secretary; M. A. HUNT, Terre Haute, Ind., treasurer. Tenth annual meeting at Atlantic City, N. J., August, 1894.

CONTENTS.

The flower show as an educator 597
Bermuda lilies 598
Ericas at Whitestone 599
Broken column with cluster on shaft (illus) . . 599
Otaheite oranges 599
Carnations—Chester County Society . . 600
—How I tie up carnations 600
—Notes 600
Lily of the valley 600
Lady Campbell violet 600
Blight of Dracæna fragrans (illus) 601
Seasonable hints 601
Foreign notes 601
Philadelphia 602
New York 603
Boston 603
Chicago 603
Washington 604
St. Louis 604
Toronto 604
Baltimore 605
St. Paul 605
Providence, R. I. 606
Our new directory 608
Catalogues received 608
The seed trade 610
Indianapolis, Ind. 612
Mass. Hort. Society 614
Insect on cyclamen 614
Flowers for dinner 614
The single pipe system 616
Directions for making a flower pot . . 616
The language of flowers (illus) 613
The Florists' Hail Association 618

WESTFIELD, MASS.—Mr. S. Batson has sold out to Henry Gibson and has removed to Kalamazoo, Mich.

RICHMOND HILL, N. Y.—Last summer Mr. Axel Lindstrom added five new houses to his plant which now has an aggregate of 20,000 square feet of glass.

MINNEAPOLIS, MINN.—On January 27, one of our big dry goods stores advertised a flower sale in which were offered: "Cyclormen, in pots, each 10 cents; Dutch Hyacinths, in pots, all colors, pink, blue, purple and white two for 25 cents; Cinerari, in bloom, each 15 cents; choice Easter lilies, in bloom; 100 extra fine Azaleas, in all colors, large size, covered with flowers! Some plants worth $5.00 choice for each $1.50; cut flowers of all kinds at popular prices."

The Flower Show as an Educator.

BY JOHN N. MAY.

[*Read before the New Jersey Social Florists' Club Feb. 1.*]

As an educator for the young men in our business, or, I should rather use the term as a promoter of opportunities of education, there are very few things equal to a nice flower show. In the first place the very cream of all the productions of the different greenhouses, gardens, etc., are always placed on exhibition. For the young man this is an excellent school and I would advise everyone to visit such shows where they can possibly do so if only for the sake of information alone.

Oftentimes I have myself wondered why certain premiums were awarded in a certain way and in my judgment, basing only upon possibly first sight, have considered the judges possibly to have made an error. After weighing the matter over very carefully in all its various bearings I could begin to see it in a different light; oftentimes I was greatly assisted in this matter by standing quietly by, watching and hearing the various comments of the different people as they criticised them. Herein lies one of the secrets of the whole thing. The judges, it must be borne in mind, are selected from those who are considered well versed in the characteristics of different plants, flowers, etc., which they are called upon to criticise, and it must also be borne in mind that these same judges weigh every item in favor or against the variety or varieties that they are commenting upon. Furthermore, as a rule, they are extremely cautious before they award a premium because they know that the eyes of the general public are always upon their work and they are subject to a good deal of criticism if they make any mistakes. This, of itself, is of great value in checking any undue discrimination in such matters. Another point may be worth mentioning on this subject and that is if you do not quite understand why any particular premium, whether it be for plants, flowers, fruits or vegetables of any sort on exhibition, has been awarded to what to all appearance was not a superior exhibit, wait until your opportunity comes and then ask someone whom you think can give you better information upon the subject. While their opinion may not be absolutely infallible as to its reasons, in the course of their replies they will give you frequently the key to the whole subject.

In my boyhood days we were taught by the old school of gardeners that the way to obtain information was "to keep your eyes and ears open and your mouth shut." I am afraid that was carrying the point a little too far; while it is still applicable in very many cases, I think you will find the majority of practical men of the day are perfectly willing to answer any question put in a respectful way, and by such means you can very often obtain information that you could not otherwise get. Of course you have to go about this in rather a cautious way. It would not pay to ask a man point blank why such and such a subject was awarded such a premium, but ask simply because you desire information. This is done every day by hundreds of people that are simply observers and not exhibitors at our different flower shows.

In putting up exhibits for competition, such as arranging collections of plants and flowers, the general effect goes a long way towards deciding the premium. This is a source of great study and can be utilized for future benefit by every one of us. There may be times in our future lives when such subjects may come before us and we may be called upon to do something similar. Profiting by what we have seen in the past we can ofttimes improve upon it. The blending of colors so that they harmonize one with the other and so that they will show the best possible contrast, bringing out the varied charms of each, is one of the great objects to be studied in this matter. Whether it is a group of ornamental plants or a group of flowering plants the same law applies, and where arrangement is a greater conundrum for the young beginner than in the ordinary exhibits of individual specimens. In the latter oftentimes the subject will be very clear and very distinctly delineated by the different exhibits. On the contrary in exhibits of choice groups of decorative plants or massive groups of flowering plants it is an exceedingly difficult matter even for the judges to decide which has the preference or precedence in points of beauty, excellence and general effect. Frequently it will be found that plants, though better grown and in healthier condition and really finer specimens individually than in another group which is placed in competition with it, lack artistic effect in arrangement, and this debars the superior plants from the first honors, while the lesser plants are awarded the coveted premium; this is one of the lessons we all have to learn if we are ever going to do anything in exhibiting. Tasteful arrangements combined with study of colors and effects en masse will always take precedence over groups of finer grown specimens injudiciously arranged. One of the best educators, as a rule, that can be obtained in this way is by watching the effect on the general public. As a rule if there is any particular exhibit that calls or attracts the greater attention of spectators over any other (whether a large or small exhibit) it may be taken as a general rule almost universally that there is some particular merit in that exhibit over and above the others. Taking the public at large you will find that 75 per cent of them are absolute judges of

the beautiful, whether it is individual flowers, plants or groups of decorative or flowering plants. Frequently simplicity combined with artistic arrangement will also win over a much more elaborate arrangement; this also comes from the fact that the general mind can grasp a quiet, simple arrangement before it can an intricate or complicated one.

There is one unfortunate feature, however, in the flower shows of the present day; that is the precedence of large showy varieties of flowers to the exclusion of the smaller and ofttimes more beautiful. This can be observed at all our chrysanthemum shows, where the beautiful little Pompon and graceful Anemone are hardly ever seen; the cause for this is that the general taste everywhere has been drifting towards size rather than intrinsic beauty. Possibly within the next few years this will be all changed again, and as the general public gets more interested and better educated up to the taste of choicer, finer and more artistic flowers, so will the general tendency of the shows drift that way.

I have nearly all my life been connected more or less with flower shows and exhibiting, and these are the general impressions I have drawn from my own experience in the matter and I would say right here to all who calculate or contemplate following this profession for their livelihood that the time possibly may come when you will all enter the arena as exhibitors in some shape or form and some of these points it may be well for you to study out. Do not hesitate when in a show if you do not understand anything to ask someone whom you think can give you the desired information; or by listening quietly to the different conversations of the different people you can obtain such information without asking anyone. Where this is not practicable do not be afraid to ask for it. The same law applies in our business in everyday life. Many young men do their work mechanically and do it to the best of their ability, but they do it oftentimes, particularly where they are starting at something they have not done before, without knowing the why and the wherefore. In this case, just as in the show business, it would greatly help them to obtain the information desired and be considerable benefit to themselves in the future if they would ask the reason for its being done so. No employer who has any consideration for his own best interests as well as that of his employes will ever hesitate to give a reason why it should be done any particular way.

As you pass through life and work under different employers you will find a different method of doing things in nearly every place you go into. Oftentimes the results will be quite as satisfactory under the different treatments; this I know to many young men is quite a stumbling block, but adapt yourselves to circumstances as they present themselves to you in everyday life and in the end you will be able to know which is the better method to follow. Herein lies one of the advantages of changing to different establishments because of the experience it will give you, all of which you can use to your own benefit in after life. Do not trust to memory in any of these things; keep a little book for memoranda; always make a note of days and date of any important work that you are doing, and even the unimportant, so to speak, should be noted. This will often prove of great value to you by referring back to it. Take, for example, if you want a plant to bloom on a certain date it may be of great value to you to have a memorandum of the date that plant was put in the greenhouse, noting its particular treatment, temperatures, etc., during the time it was growing to the time of its perfection in bloom. All the hardy plants and shrubs that are treated this way should be particularly noted, as the seasons will greatly vary the time for which such things can be brought to perfection under forcing treatment. The same law applies to fruits and vegetables, in fact everything which we are called upon to grow. As an illustration, take the pansy, which by many is considered a common flower. If you want plants in bloom in perfection, say for Easter one year, which may fall at the end of March or first of April, you will have to vary the time of sowing the seed considerably to what you would if Easter falls on the fifteenth of April the coming season. The two weeks' difference in the spring will make from four to six weeks' difference in planting the seed in the fall of the year. By keeping note of these things as they present themselves you will find them of great value to you. I simply mention pansies as being the simplest things to be obtained. All the other difficult and intricate plants to grow and force bear the same relation to starting as the pansy above mentioned.

In conclusion will just remark that one of the finest ideas and most practical I have ever known was during my apprenticeship days. My employer had been forty-five years in the gardening business the day I left him. His parting words to me were: "I hope you will succeed and do well in life, and remember that you can always learn something from everyone you meet. I have been forty-five years at this business, and I am simply an apprentice to-day. Good-bye."

Bermuda Lilies.

Our attention has been called to the fact that as in previous seasons Bermuda growers are again sending out their prospectuses, offering boxes of five dozen blooms delivered in New York City for $2.70, and our correspondents urge that something should be done to induce the dealers here who import bulbs largely from Bermuda to ascertain from the growers there whether they are in the habit of sending cut blooms to the United States and at the same time advise them that if they persist in doing so the dealers as a body will refuse to buy bulbs from them.

The following communication from Mr. F. R. Pierson will be interesting in this connection as coming from one of the largest and most experienced handlers of Bermuda lilies. Mr. Pierson says:

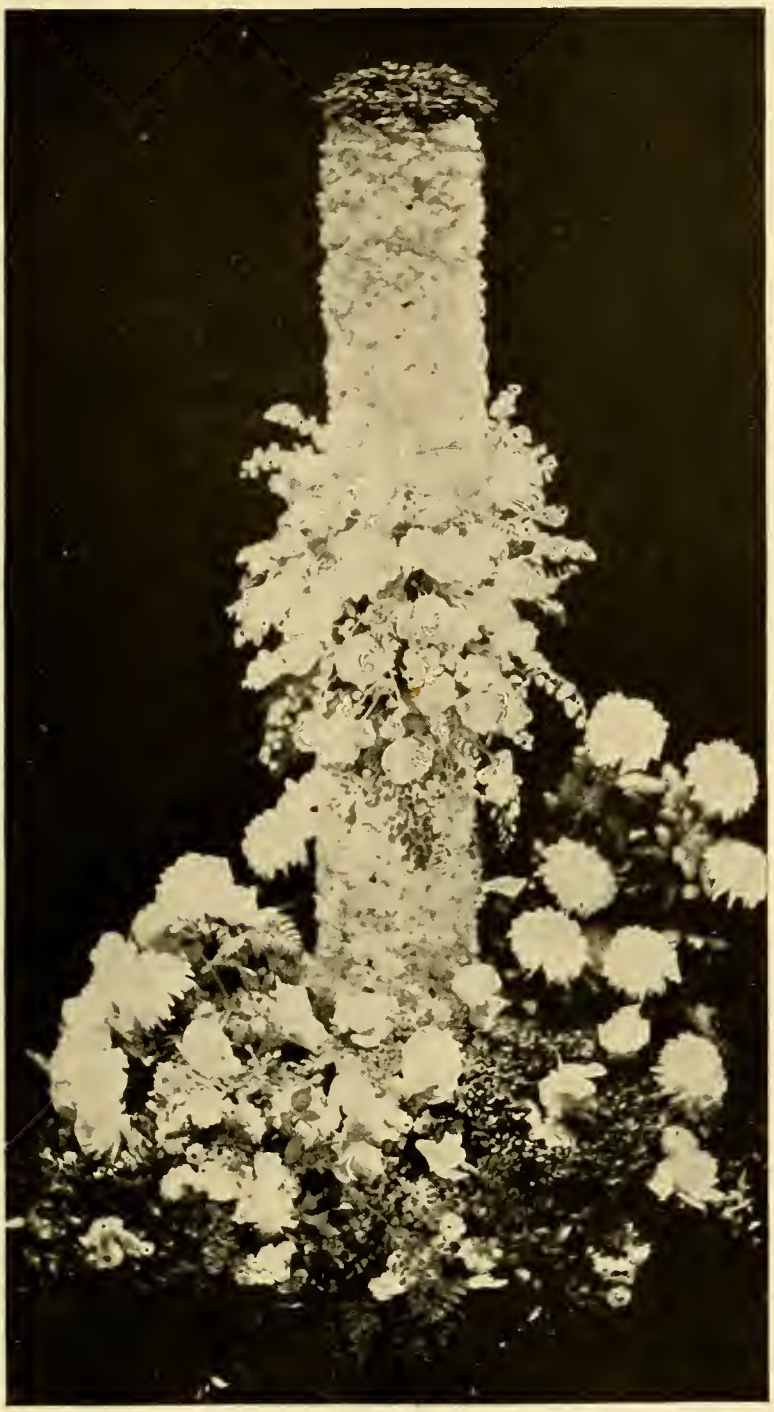
"I do not believe that this kind of flowers shipped from Bermuda hurts the sale of greenhouse grown blooms at all, as these flowers do not reach this country in good condition. Flowers are very, very indifferent, the stems are short and the foliage badly yellowed. If a florist sent such stuff into the city he would get no returns from it whatever; it would simply be unsalable. There was a time when lilies were not so cheap when there might have been a temptation to use such stock because the difference in price tempted people to invest in them, but the ruling price on Harrisii the past winter has been 5 cents to 10 cents. 10 cents has been about the top price for best Harrisii since the holidays and quantities have sold as low as 5 cents, consequently I cannot see how any florist would touch this Bermuda stock at anything like these figures. For these reasons I do not believe that it affects the sale of Easter lilies or hurts the florist to any appreciable extent.

"You will understand better the conditions under which these flowers arrive when I state that the flowers are cut a week before they reach New York, as all freight of this character is obliged to be on board steamer before six o'clock Wednesday, necessitating—if any quantity is shipped—packing on Tuesday, and Wednesday at latest. Flowers have to be passed through custom house and are not available until late Monday afternoon or early Tuesday morning, hence are practically a week on the way. You know what that would be when flowers are in first-class condition when packed, but the outdoor grown flower in Bermuda is not so perfect as those grown under glass in this country, and why anybody should be tempted to buy such stuff, which arrives in such condition, when our own greenhouse stock can be bought at such low prices, I do not see. I think it must go into the hands of amateurs and the people who would buy such stock would not be very valuable customers to the florists.

"When we first went into Harrisii growing in Bermuda, years and years ago and when we obtained 25 cents, 35 cents or 50 cents each for the blooms, as we did the first years we grew the flowers, the question of Bermuda competition was a serious one and was carefully considered by us, but by repeated experiments we satisfied ourselves that these flowers could never be shipped into the New York market, which of course is the nearest one, and ever seriously affect the price of our greenhouse grown product. Then there was a temptation to use such stock because the greenhouse product was abnormally high and Bermuda flowers could be purchased at same price they can be today, but it never cut any figure then, and I consider it at present time a bugbear which has more reality in imagination than in fact.

"If there should be any difference of opinion as to condition in which the flowers could be brought in here, there is an insurmountable barrier which makes their *practical* importation for *Easter* an impossibility, as the steamer arrives on Sunday, so that flowers intended for Easter have to be brought in on Sunday preceding Easter, which obliges anyone shipping to cut the flowers nearly two weeks, certainly not less than that, before they can be used. Quality of the flowers is thus ruined, as will be apparent to anyone. I state these facts fully so you will appreciate the situation, if you are not already informed in reference to the matter, and think the facts already stated will convince you that the importation of Easter lilies, particularly as a factor influencing *Easter* prices, is more imaginary than real. At any other time, through over-production or lack of demand, prices are already so low that I cannot conceive how the Bermuda grown flower shipped here could find buyers even at any price, as good greenhouse grown stock is wholesaled at same figures as we are asked for the Bermuda stock. I believe the one outlet for them is among people of limited means, who are not critical buyers, and who only buy them by reason of their cheapness, as I believe the men who export the flowers make no distinction between a wholesale or retail buyer."

OUR trade directory and reference book for 1894 will be issued next month. Send your order now for a copy. Price $2.



BROKEN COLUMN WITH CLUSTER ON SHAFT.

Ericas at Whitestone.

One of the neatest places in the vicinity of New York is Louis Dupuy's at Whitestone. A visit to Mr. Dupuy is a pleasure, for he is a thorough gardener and most courteous as well. Here is where the beautiful ericas that one sees in the New York florists' windows come from. Not everybody can grow ericas successfully and not every place will suit these fastidious plants, so Mr. Dupuy is fortunately in a line which is not likely to be overcrowded or overdone for many a year.

He regards E. nigricans as the best of all to grow in this country. It comes in just right for Christmas and is one of the most beautiful of flowers as well as the shapeliest of plants. This species has to be grown until its second year, when it blooms in best form. E. Wilmoreana does well here also and can be had in beautiful condition for Easter. The plants of this species Mr. Dupuy finds it best to import, but this is quite a risk and considerable loss often occurs.

The great midwinter variety E. persoluta alba is now coming into bloom. The flowering season can be extended considerably by keeping the plants in the cold frame and bringing into heat in succession. Cuttings of this variety are taken from December to March. These are left in the pan until they have a good ball, when they are potted, and in June are plunged outside, where they stay till late fall, when they are removed to cold frames, and are then tidy plants ten to twelve inches high and full of buds. E. persoluta rosea is quite pretty with flowers pink instead of white and more fastigiate in growth than alba. Heaths bloom earlier here than they do in Europe, as they ripen up much quicker in this climate, so it happens that E. hyemalis, which is so popular in Paris in November and December, blooms too soon here to be of value in the market. E. gracilis is another early one with fine pink flowers and beautiful soft green foliage, and in one year old plants is admirably adapted for jardinieres.

Speaking of the cultivation of ericas in general, Mr. Dupuy says that the item of water is a very important one, as when the water has any amount of lime in it it affects the ericas greatly. On only one side of Paris, the east side, can ericas be grown well. There is no insect that bothers these plants. The only trouble is mildew, which is liable to appear when they are kept too close in the house, for ericas require always a plentiful circulation of air.

Besides the heaths Mr. Dupuy has at present early genistas and hydrangeas that will make well bloomed plants for Easter, also fine J. J. Harrison, Thomas Cartledge, Lizzie McGowan and Portia carnations. The Portias have been in the benches since July, and this appears to have been just the thing for them, for they are blooming splendidly.

Broken Column With Cluster on Shaft.

The base is square and composed of Ivory chrysanthemums, Bride roses, carnations and adiantum, plants of which were taken out of pots and plunged in the moss. The shaft is made of white carnations, the broken portion being represented with violets. The large cluster on front of shaft is of Bride roses and lilies of the valley. M.

Otaheite Oranges.

ED. AM. FLORIST:—Are the little ornamental Otaheite oranges raised from seed or cuttings? Please give directions for producing plants that will bloom and bear fruit. F.

Otaheite oranges are propagated either by means of cuttings or by grafting, the latter being the best method to secure a stock of this plant.

Seedling oranges or lemons form the most desirable stock on which to graft, and if sown now should become of suitable size for grafting next fall or winter. Either cleft or side grafting will answer, though the latter makes the neatest job, the scion being formed of a piece of firm, young wood, and should be bound securely in place and the union covered with grafting wax. The grafted plants should be kept moderately close until the parts are united, after which they should be given more air and light, and can be grown on in about a rose house temperature.

The soil best adapted for orange culture is a good loam enriched with some well rotted manure and a small quantity of bone dust, and it is not necessary to repot them frequently.

During the summer it is a good plan to grow them in a partly shaded frame outdoors, there being less trouble from insects by the use of this method, but the

plants should be brought in as soon as the nights get cold in the fall if rapid growth is desired.

The young plants will take at least two years to become salable, and stock plants for propagating from can be had from some of the large florists around New York. T.



Chester County Carnation Society.

The regular February meeting was held in Kennett Square, Pa., Saturday, February 3.

Edward Swayne, of the committee on floral exchange, reported prices for rental in the farmer's market, Philadelphia, where it seemed space could be secured at a reasonable price.

Mr. Styer, for the committee on exhibition of flowers, reported his efforts to secure space at various points in Philadelphia, the most favorable place offered being a large mercantile establishment. The Pennsylvania Horticulturnl Society having decided to abandon its spring exhibition it would be impossible to show carnations at that time. The feeling of the members as expressed, was entirely favorable to holding the exhibition. The committee were authorized to make all necessary arrangements, the date to be in March, not later than 15th and to continue two days.

The subject of propagation was discussed. Mr. Walton had at first used 5 or 6 inches of road sand, and later 1½ inches coal ashes and 2 to 2½ inches of road sand; under the latter circumstances he had much better success. Mr. Ladley was having poor success with one lot of Daybreak cuttings which he thought was due to a weakened condition of the stock plants. Jos. Phillips noted a great difference in rooting vitality of cuttings from two lots of Portia, those from stock grown cold being far in advance of the others from a warmer house, the difference being 25 to 30 per cent. in favor of cuttings from the colder grown stock. He favored the early removal of the cuttings from the sand. Wm. Swayne thought the loss in vitality could have been overcome by propagating at a higher temperature than had been given those grown colder. He was having better success than formerly by using more bottom heat, 6° to 10° in excess of the temperature at which the plants were grown and with little shading. Mr. Shelmire found 60° overhead and 65° in the sand was best. Mr. E. Swayne used a muslin shading being back of a north bench so as to shade and yet admit of walking between the curtain and bench. Mr. Phillips used a frame of lath on the glass outside for a shade with entire satisfaction.

Referring to disposition of rooted cuttings from sand, Secretary Shelmire had found a marked difference in the field growth in favor of plants grown in pots over those from flats. Wm. Davis gave a brief report of a trip through Western Pennsylvania and Ohio among the carnation growers, many of whom he found growing fine stock. A device for plant support was shown from B. Schroeter, of Detroit, Mich., which had been tried by some of the members and seemed to be a practical device.

Edward Swayne showed flowers of Ophelia, in fine condidition. C. J. Pennock showed a white of good size and well fringed. Secretary Shelmire showed the finest white ever before the society, on good stem and fragrant. Wm. Swayne had a pink and Wm. Skelton a good crimson and also a white.

Discussion on the use of tobacco for destruction of green fly developed the fact that there was considerable complaint among buyers on account of the smell of tobacco adhering to the flowers. The use of stems on the walks was recommended to obviate this. Vaporized tobacco water was also thought to obviate the trouble. C. J.

How I "Tie up" My Carnations.

All carnations have a desire to grow up straight without brush, stakes, strings or other intervention. It is only when their flowers expand that the tops become heavy, and the whole stem bends down to the ground. The stems are generally strong enough, but there is a weak spot where the stem joins the main plant. If the flower stems receive a little support in about the middle, even the weakest will stand up.

In the fall after I bench my carnations I let them start into growth without doing anything in the way of supporting them. After they have attained about one-third of their height, I give the bed a thorough raking over to destroy all weeds. I then stretch two stout wires lengthwise over the bed and on these I lay a sheet of wire netting. As the carnations continue to grow they go through the meshes and nothing farther needs to be done for that season. I think a three inch mesh is most handy.

CHAS. EVERDING.

Carnation Notes.

There are possibilities in carnation culture that we may sometimes overlook. On a visit last week to Mr. Shelmire I saw a house of seedlings; almost every one was making good salable blooms and many of them were really fine. He tells me he is making about as much money or more from these plants, selling only the blooms, as he is from any of the older standard sorts. They are all seedlings of Cæsar, which has the happy faculty of producing seed that turns out all double blooms. This is rather a new phase of carnation culture and one that we can study to advantage.

A little farther down the road is William Swayne's place. He also has a new wrinkle under way. Someone has told him, or he has seen it (I forget which), of growing Buttercup entirely from seed, and that the seed produced all good Buttercups that grew and produced much better than plants grown from cuttings. Mr. Swayne is experimenting with Edna Craig on this line and hopes to get the same results.

Mr. E. G. Hill said at our carnation meeting in Pittsburg last winter that Edna Craig was rust proof and that the best way to fight that disease was to produce a race of carnations that would not be affected by the rust. Here is another way out, not only from rust, but almost all of the diseases carnations are heir to. If we can produce a race of carnations that will duplicate themselves by seed we will be right in the swim, for any good seedling will have much more vigor and be more prolific than the plants we grow from cuttings. In experimenting on this line it will be well to recognize the fact that self fecundation is abhorrent to nature and that much better seed can be produced, and the seeds will produce better plants if they are artificially fertilized, that is, by not merely taking the pollen from a flower and using it on the pistil of the same flower, but by alternating them, taking pollen from one flower and using it on the pistil of the next plant, and taking the pollen from that plant and using it on the pistil of the first. Of course it will be understood that the seed is to be produced from one variety alone and not crossed with any others, as it will even then take some time to get them to come true, if they do come true at all.

Now this may all be theory, and poor theory at that, but in the face of the fact that it is possible with one variety and that it will not take much time to make the experiment it is certainly worth a trial, for the results are so desirable if attained. To get any pure seed it is well to begin at once, as it will not be long until the bees come in during the day and they will cross fertilize them.

ALBERT M. HERR.

Lily of the Valley.

Will some experienced grower please tell me how to force lily of the valley so as to get the leaves? I have no trouble in getting flowers. BEGINNNER.

The only way to secure plenty of foliage on early crops of lily of the valley is by the use of cold storage pips of the previous years crop. But from this time onward an abundance of leaves can be had by forcing the pips somewhat slower. Begin the operation with strong heat, and continue this condition until the shoots are about wo inches high, then give rather less heat and a little more light, and the leaves will grow about as fast as the flower spikes. The strong heat referred to above for the starting of the pips should be a bottom heat of about 80°. W. H. T.

Lady Campbell Violet.

ED. AM. FLORIST:—Your Philadelphia correspondent "L.," in No. 291, states the color of the new "Lady Campbell" violet to be "about the shade of the old Neapolitan." So far as I have seen he is right. I refer to Huebner's stock. I do not think he claims it to be "darker," or even as dark as the Marie Louise, at least those who speak for him do not. During the past season I have had an opportunity to compare it with the Neapolitan, and also the Parma, and find it differs more in habit from the former, being a stronger grower, than in color, while in constitutional vigor and color of flowers it is almost identical with the Parma. Commercially they are not distinct. Still there is a difference which, though trifling, may be given here. The habit of the Campbell is more compact, and in this respect it resembles the old Neapolitan. The compact appearance is due to a lesser deflexity of the leaf foot stalks. This deflexity is common in all sweet violets and marked in the Marie Louise; and it may have been noticed how, when the plants are doing well, the tips of the leaves will turn towards the ground. The leaf of the Parma is rougher and the hairs on the surface longer and denser, giving the plants a grayish green cast on a general view. Like the Neapol-

itan; neither is so liable to disease as the Marie Louise, but both spot a little. I have tried the various copper compounds, but think I would have done as well if I had never used them. My plants have grown out of it nicely.

I do not know the origin of Huehner's stock, but have no reason to believe it is not genuine. On comparison with mine imported from Cannell it appears to be not quite the same. There is a difference which may be detected at a glance, but very hard to describe. I wish to say to any of the interested parties that I should be glad to send a few cuttings of the Parma and Lady Campbell for comparison next winter. T. D. HATFIELD.

Wellesley, Mass.

Blight of Dracæna Fragrans.

From time to time bits of leaves of Dracæna fragrans are sent to the Experiment Station with a complaint that the plants are not doing well, and in commercial greenhouses they become unsalable. The trouble in question is another one of those caused by a fungus, or at least it is the active agent of destruction when the leaves reach me. The foliage of the plant is of a texture and thickness that render it a favorable feeding ground for fungi, for they as a rule love succulent plants, all other things remaining constant. It is often the tips of the leaves that are most subject to the bad effects of the blight, and this is true of many other than the dracæna plants. This may be due to the fact that the water holds to the pendent tips longer than to any other portions. When the plants are sprinkled the upper portions of the foliage retaining only a film of the liquid quickly dry off, while the water descending to the tips there remains for a long time. The presence of this moisture upon the surface of the leaf tips furnishes the proper conditions for the germination of spores that may have been brought there by the descending water as it flowed along, gathering to itself the spores previously deposited upon the surface of the leaf. It is thus seen that there are at least two good reasons why the tips of drooping leaves may be infested with fungi while the upright parts escape. As a matter of fact, however, such portions do not escape. Not infrequently in the case in hand dracæna leaves may be blighted midway of the tips and base. In such instances it is possible that sometimes there has been some injury by means of which the spores found an easy place to germinate, and their germ tubes to penetrate the leaf.

There is a third reason why the tips are more susceptible, namely, the greater surface exposed to the amount of tissue than in the other parts of the leaf. The entrance of disease germs is largely a surface action, and therefore the chances are greater as the tip of the leaf is approached. The tips being thinner and farther from the base of interior water supplies often suffer from wilting and become dried naturally. Anything of this nature assists the parasites to get a foothold. The wonder is that more tips are not attacked. When once a fungus has established itself it will begin to work its way in the leaf toward its base. This advance may be quite uniform and rapid, so much so that there is a distinct line between the living and the destroyed tissue.

The accompanying engraving shows a portion of a leaf of Dracæna fragrans and illustrates the point above stated. The dead tip was cut away before the photograph was taken. This tip had taken on a straw color while the healthy portion in the lower half of the engraving was of a pale green. The line between the healthy and diseased is very marked, due to the rapid shrinkage and paling of the latter.

The fungus which was destroying the leaf inch by inch is a species of anthracnose of the genus Gloeosporium and doubtless could be prevented from getting a foothold in the dracæna foliage by weekly sprayings of any standard fungicide. BYRON D. HALSTED.



BLIGHT OF DRACÆNA FRAGRANS.

Rutgers College

Seasonable Hints.

There are two beautiful plants that are coming in about right for Easter this year. They are Acacia Drummondii and A. armata. They are not grown or seen as much as they should be. To those who are not acquainted with them, would say they are of a different habit from the lovely A. pubescens, which does best trained up the end of a cool house or pillar. Drummondii and armata, with plenty of cutting back, can be made fine bushy plants. They both have clear yellow flowers. They cannot be grown as cheaply as acytisus and should command a much better price. In the winter they thrive best in a night temperature of 45° to 50°, or in the same house you would keep your Azalea indica. After they have done flowering cut them back to within 2 or 3 inches of the last year's growth; they will break out and make growth for another year's flowers. I have found for several years that the best summer treatment is to plunge them out of doors on a dry bottom in any material that is most convenient, spent hops or tan bark preferred, and let them have the full rays of the sun. Keep them there as long as you can without running any risk of an early frost.

This early Easter is going to suit a good many lots of that cheap plant, the cineraria. I have mentioned previously how easily a cineraria is killed by overwatering. If allowed to wilt from dryness they will loose some of their bottom leaves, which much detracts from the appearance of a ciaeraria. But overwatering is worse, for they never recover from that. Keep them well fumigated, but not too strong at one time, and in addition a few tobacco stems among the pots helps greatly to keep down our constant enemy, greenfly.

As the season advances you will find your stock of plants increasing and wanting more room, particularly the many kinds that are not used until the months of May and June. It does no harm to a bench of roses or carnations to set a row of drooping plants along the edge of the bench. Such plants as vineas, German ivy, lobelias and many others can be set there, and after the middle of February, with careful watering, can do no possible harm. In recommending this way of getting relief from a crowded bench I am no advocate of the principle of mixing up plants in general, far from it. Nothing shows evidence of a mismanaged place quicker than to see a jumble of plants of different sorts and in different sized pots on the same bench. I am aware that the great majority of my readers do not need to be told this, yet there are too many places to be seen where this impracticable method is still followed. If your trade demands but one or two dozen of a certain plant, have that lot occupy one or two *straight* rows on the bench, and if you have two thousand of another kind, let them be in blocks; they are moved easily and properly watered and attended to in every way.

If you grow American Beauty rose and wish to grow your own stock for this summer's planting, now is an excellent time to propagate. Some people find it difficult to "strike" this rose with success. My experience is it is one of the easiest. Don't choose the very largest growth, but take the moderately short and firmer growths. In cutting off a growth for propagating judgment will have to be used. Perhaps several inches at the base of the shoot will have to be thrown away because it is too much matured and the same will have to be discarded on the other end because they are too soft. Make every cutting with two or more eyes and if you will insert them in clean sand which has a bottom heat of 75° with a top heat of 60° you will not lose 5 per cent. When they are rooted and potted into 2 or 2½-inch pots they need careful attention. They must not be put at once into a house 10° lower than they were rooted in, or you will find many of them turning black, stem and all. While many, perhaps all, of the tea roses are as well or better propagated from one eye cuttings it is very essential that Am. Beauty should have at least one eye under the ground when planted, for most of the growth you depend on for flowers will come from the eye that is beneath the ground. This point is ably explained in Mr. M. A. Hunt's book on "How to grow cut flowers." How often to water the cutting bench is often asked. If it allows the water to pass through freely and the bottom heat is brisk no harm will be done if watered every day. After ten days in the sand all rose cuttings should be able to stand all the sun light that we get for this month.

Buffalo, Feb. 5. WM. SCOTT.

Foreign Notes.

Graderia subintegra is a beautiful new greenhouse perennial from South Africa, belonging to the Scrophulariaceæ. It is an herbaceous trailer three inches high, with showy pink gloxinia-like flowers, and seems likely to prove a valuable acquisition.

Ricinus Zanzibarensis is a new variety recently received from East Africa, and which is far more striking than the old

R. communis. The leaves of the type are light green, 2 to 2½ feet across, with whitish ribs; in general habit it looks like a most luxuriant Aralia Sieboldi. There are three showy forms of zanzibarensis, differing from the type, maculatus, cinerascens, and niger, all very showy and richly colored.

Chrysanthemum Good Gracious has received an award of merit from the Royal Horticultural Society in London.

Galax aphylla is being used abroad for wreaths, etc., and is meeting with high praise, the beauty of the leaves being frequently remarked. The English decorators seem inclined to make good use of these leaves. The plant is not by any means a stranger to English gardens.

Philadelphia.

The past week has shown considerable improvement in the volume of business, and this increase, together with the difficulty experienced in obtaining flowers, kept the dealers on a rush most of the time. Good flowers of all kinds were very scarce; particularly was this the case with large roses. The Brunners for the most part are cut out. Anderson has just finished his first house, which has held out for a long time, the first roses being cut about Christmas. Smith & Whiteley still have a few and Burton has a small house.

For the second assembly ball, which was held last Friday night, there was a great demand for large roses. It seemed as if nothing would do if these flowers could not be had; even orchids could not be substituted. Beauties and Belles that would not have been noticed at other times were eagerly grabbed up and used in lieu of something better. Double violets were also scarce and in great demand.

The weather, or something else, has interfered lately with cut flowers, as the growers are scarcely getting a third of what they ought to be cutting. One of them said recently "We are great growers, the sun and us, particularly the sun," and it is the lack of sunshine that is said to have caused all the trouble.

The condition of the market has had no material effect on prices and they remain about the same as last week. Daffodils are coming in from a number of growers and sell very well. There are a few tulips about, Mr. Harris supplying the most of them. He is forcing comparatively few this season, as for the last year or two he says there has been no money in them. A grower who has had considerable experience with tulips says "I wish they would put the tariff so high that the Dutch would have to keep their bulbs; there is no money in them for anybody, and if they were out of the market other flowers would sell better." Freesia is now very plentiful and sells at from $1 to $1.50 for the best ordinary. Mr. Lukens of Burlington, has some very fine which brings him $3 per hundred.

Quite a number of the carnationists from Chester County were in town recently. Messrs. Barnard and Phillips, of West Grove, and Messrs. Love and Moore of Unionville, were seen last Thursday. The latter gentlemen had flowers of some of their new varieties along with them; they were very promising sorts, particularly a light yellow striped variety raised by Mr. Love, and a fine large crimson, the best of its color we have yet seen, a seedling of Mr. Moore's. The rapid advancement in the carnation is illustrated in the statement of Mr. Love who says that he has but two varieties left, Buttercup and Portia, of a collection of fifteen, all supposed to be standard kinds three years ago; the balance were discarded to make room for the new and improved sorts of to-day.

Mr. Londale's Helen Keller house is the Mecca for many of the visiting craft and his order list is increasing largely in consequence. At last accounts 15,000 plants had been sold and nearly every mail brings additional orders.

The Pennsylvania Horticultural Society has met with an irreparable loss in the death of its President, Mr. Geo. W. Childs, who died Saturday, February 3, of paralysis, after an illness of a few days. Mr. Child's name lent a prestige to the society which secured for it many members, and his presence at the exhibitions in which he took great pride and interest were always conspicuous events. The best plants from his conservatories were certain to be seen at the shows and in every way in his power, probably most notably through the columns of the *Public Ledger* did he use his influence to help the society in its good work. The Florists' Club of this city and the members of the S. A. F. who attended the convention of 1886, held in Philadelphia, will remember with pleasure the elegant reception tendered the society by Mr. Childs at Wootton, his country seat near Bryn Mawr. The photographic group of the members with Mr. Childs' residence in the background, taken on that occasion, is one of the best pictures of the society, and a valued souvenir of the occasion.

At the meeting of the Florists' Club held last Tuesday evening the following resolutions were adopted and ordered to be spread on the minutes, a copy of the same to be engrossed and sent to Mrs. Childs.

WHEREAS: The Florists' Club of Philadelphia, having learned with deep regret of the death of Mr. George W. Childs, the late president of the Pennsylvania Horticultural Society and a warm and enthusiastic patron of horticulture and floriculture, therefore be it

Resolved: That the Florists' Club of Philadelphia hereby expresses its deep sense of the irreparable loss which it has thus sustained in common with all other horticultural and floricultural bodies in the United States and all over the world. Mr. Childs was an honor to horticulture and was ever ready to respond in the most generous manner to its advancement. The Florists' Club of Philadelphia had particular cause to regard Mr. Childs with feelings of the warmest esteem and admiration for many acts of kindness and sympathy and especially does it hold him in grateful remembrance for his cordial hospitality to the club and the national society during the annual convention of 1886. The club feels deeply that it has lost a warm friend and horticulture at large has lost one of its brightest and most distinguished ornaments.

The members of the Florists' Club of Philadelphia hereby record their heartfelt sorrow under this dispensation of Providence and their warm appreciation of Mr. Childs' noble character in every walk of life and hereby extend their heartfelt sympathy to his bereaved wife.

They are proud to have been his fellow citizens, proud to have been associated with him in the advancement of their art, and proud of all that he has done to make his name beloved at home and revered abroad. Therefore be it further

Resolved: That these resolutions be spread upon the minute book of the club and when suitably engrossed and signed be forwarded to the family of the deceased.

President Lonsdale has appointed some of the committees who are to make arrangements for the coming meeting of the S. A. F. and there have been several meetings. It is expected that after the February meeting everything will be in working order and the arrangements for the most part completed before the March meeting.

The meeting called by the Pennsylvania Horticultural Society, Monday, Feb. 5, to take action on the death of its president, Mr. Geo. W. Childs, was well attended. Dr. Reed, vice-president, occupied the chair and in opening the meeting spoke in eulogistic terms of Mr. Childs and his work while president of the society.

Dr. Morris, Prof. Frazer, Dr. Gadsden, Hiram DeWalt, and Secretary Farson also made remarks, all showing their appreciation of his worth, and sorrow at losing such a good friend to the society. Prof. Persifer Frazer and Dr. Cheston Morris, presented the following minute which was adopted by a rising vote:

WHEREAS, in the loss of our president, George W. Childs, the Horticultural Society of Pennsylvania has sustained an irreparable loss, and

WHEREAS, a great and useful life flowers at its termination, and like a cut flower, should be made the means of carrying its beauty and fragrance far from the scene of its life; therefore, be it

Resolved, That while bowing reverently before the decree which has called him to his rest, has gathered him as a ripe sheaf of wheat, we deplore his absence from our midst, where even his name was as a tower of strength and his willing assistance in all our efforts for the advancement of Horticulture, both in its scientific and practical aspect, was always so freely bestowed.

Resolved, That the Horticultural Society of Pennsylvania, makes this public note of its mourning for its great and good president, not only because it recognizes that it will be impossible to supply his place, but because his gentle encouragement, his faithful assistance, and his unobtrusive advice were to us (as to so many other institutions of varied purposes) a strong bond of union, and a guarantee of success.

Resolved, That none but those privileged to know him well, can speak of the many good deeds by which, unknown to the public, he adorned the noble and useful life thus brought unexpectedly to a close, when we had hoped he would have been long spared to enjoy the fruits of his exertions and see the good results of his labors for others.

Resolved, That we tender our respectful sympathy to his family and relatives, to whom a copy of these resolutions shall be sent.

The funeral services were held in St. James church at 1 o'clock, Feb. 6. Messrs. G. C. Watson, John Westcott, Thomas Cartledge, H. H. Battles and Edwin Lonsdale attended, representing the Florists' Club, and Messrs. Dr. Reed, Dr. Morris, John Burton, D. D. L. Farson and Robert Kift for the Horticultural Society.

The chancel of the church was entirely filled with floral emblems. There has not been such a display at a public funeral in this city for a long time, if at all. Quite a number of the designs were from New York and other cities, and the flowers used were the very best, the designs for the most part being composed of valley, roses, orchids and violets. There were several large wreaths composed almost entirely of cattleyas, one over four feet in diameter, and a number of others of lilies of the valley and cattleyas. The wreath seemed to be the popular design as at least one-third of the pieces were wreaths. There were a number of these composed of roses and valley, others of these with clusters of violets and again clusters of lilies and roses. Several beautiful wreaths were made almost entirely of galax leaves with large knot of violets and tied with ribbon. Ribbon was also used on a number of the designs. There were quite a few designs of clusters of palm leaves tied and arranged with flowers in various ways, some with all violets and others with roses and valley and some all orchids, cypripediums or cattleyas. There was one large mound of lilies of the valley on which lay a wreath of laurel.

The Pennsylvania Horticultural Society sent a handsome pair of palm leaves and the Florists' Club a cross and crown on an ivy panel with a spray of acacia. There was but one pillow and but few set pieces, one being a standing cross and crown of red carnations and white flowers, and a piece having an arch over a book with the inscription, "Public Ledger." For the most part the work showed great care, both in selection of flowers and in their arrangement, and

gave evidence that public taste in selection of designs is tending towards the more simple and graceful arrangements.

After the services the flowers, instead of being sent to the cemetery, were distributed to the different hospitals of the city.

The dinner of the Florists' Club given to the executive committee of the S. A. F. will be held on Wednesday evening, Feb. 14, and an invitation is hereby extended to the members of the various florists' clubs to be present on this occasion. The committee having the matter in hand are working hard, and it is hoped that a large delegation from the different clubs will be present. K.

New York.

The improvement noted a week ago in the flower market has continued without interruption and everybody is happy in consequence. Trade has been better than last year at the same time, and prices on some flowers hold up equal to those of former seasons. This is not true of American Beauties though for while there is a good demand for all that come in yet high prices cannot be obtained. The shortness in the supply of roses helps the sale of everything else and with the exception of smilax, Harrisii lilies and the deserted red tulip the stock in the hands of the wholesalers is well cleaned out everyday. All are on the anxious seat as to the effect of Lent, which comes in this week. It has been remarked that Lent does not of late years have its former influence on the flower trade and it is to be hoped that this will prove to be true in the present instance.

Some very good roses are coming in to Millang Bros. from the John Henderson Co., although in common with most rose growing establishments they are somewhat off erop at present. The big place at Flushing has been greatly improved during the past year by the erection of new houses in the place of old ones and still further renewals are contemplated for the coming season. It is worthy of comment that Gontier, which at one time was the rose par excellence at this establishment, is no longer successful and has had to be dropped from the list. Watteville too does poorly, but La France, Mermet, Bride and Perle are fine. Mr. Hillman is justified in feeling elated at the success he is meeting with in these varieties, for it would be hard to find in the vicinity of New York any Mermet or Bride houses in better condition than those of the John Henderson Co. at present.

If a prize were offered for neatness and cleanliness Mr. H. C. Rath's carnation house at Flushing would stand a good chance of winning it. This house is 223 feet long and is filled with McGowan, Daybreak, Mrs. Fisher and Portia. These all, Daybreak especially, are in the pink of condition and well they may, for each plant is cared for as if it was the only plant on the place, and judging from appearances this policy pays. Mr. Rath has a sport from Daybreak which he thinks favorably of. It is splashed with a darker shade of pink and the form of the bloom is much like that of McGowan.

Among the recent additions to Flushing's carnation-growing industry is the establishment of F. Darlington, which consists of three houses of healthy looking carnations. The standard red here is Thomas Cartledge. As grown here this variety appears to have every requisite of a first-class red carnation. Mr. Darlington has some promising one-year-old seedlings among which are two or three good whites.

When College Point is mentioned one involuntarily thinks of A. Schultheis. This is natural, for Schultheis is very much in evidence over there, excepting the time between 5:30 and 8:00 a. m. during which period he is one of the leading lights of the 34th street market. The College Point establishment is a very thrifty place. No space in the houses is allowed to lie unoccupied. Every corner is utilized for something and if there is money in growing anything Mr. Schultheis will come pretty near finding it out. It is a good place to visit, provided you can pass the dogs. Once inside, Mr. Schultheis will show you round and tell you all about it as you go. There are roses and carnations in variety, lily of the valley, tulips and daffodils in great quantity, and cyclamens that are now a glorious sight. A shaded house 225 feet long is filled with lily of the valley in all stages of growth.

Cusins and Perles do finely here. The latter are full of buds and fat wine-red stems. Kaiserin Augusta Victoria seems to grow here all right in midwinter, notwithstanding the opposite has been the experience of some growers. Testout, on the contrary, is standing still at present. This, however, Mr. Schultheis thinks may be owing to insufficient heat. Later on there will be a big show of Baroness Rothschild and other hybrids in pots for the market.

Schiller & Co. is the style of a new firm that has opened a florist store at 122 E. 23d street. The senior member is Mr. Ludwig Schiller who had charge of Germany's horticultural display at the World's Fair.

Boston.

The subject for consideration at the meeting of Massachusetts Horticultural Society on Saturday February 3, was, "Electricity: The Latest Discoveries as applied to Horticulture," an exhaustive lecture on this subject being presented by Prof. L. H. Bailey, of Cornell University. Prof. Bailey gave an interesting account of the experiments which have been going on under his direction during the past four or five years, and the results attained from the application of electric illumination to growing plants and the direct application of electricity to the soil, the plant and the air, the general result of the investigation however, lacking as yet that completeness from which definite conclusions might be drawn as to the value commercially of this agent.

This was prize day for cut orchids, violets, carnations and camellias, in all of which classes there were good displays. From Mrs. F. L. Ames and J. L. Gardner came grand collections of orchid blooms. The display from Mrs. Ames was especially rich in rare and new varieties, conspicuous among them being a fine spike of the noble Miltoniopsis Bleui splendens. Lælia anceps was seen in many novel forms, and there were lycastes, cattleyas, cypripediums, odontoglossums, masdevallias, etc. in great profusion.

Camellias were shown in variety by F. B. Hayes and J. L. Gardner, and violets by N. T. Kidder and R. and J. Farquhar & Co. The latter showed a violet which they have named "Farquhar" and which can best be described as a large and finely colored form of Marie Louise. A set of cyclamens in 6-inch pots, thirteen months from seed, were staged by N. T. Kidder, and were very handsome plants. Carnations were quite extensively shown by Wm. Nicholson, R. T. Lombard, L. H. Foster, H. K. Southworth and A. H. Fewkes. First prize for collection was awarded to Mr. Nicholson and second to Mr. Lombard. The two new varieties Ada Byron and Nicholson attracted much attention. In L. H. Foster's collection was a very fine white which Mr. Foster believes to be Storm King and which came to him supposedly by mistake among a lot of other varieties which he bought. There was also a fine vase of Helen Keller which came from Edwin Lonsdale.

The meeting of the society was very largely attended, the lower hall being well filled. A vote was passed tendering the use of one of the halls to the American Carnation Society for their meeting next year, should they see fit to select Boston as their next meeting place. The subject for next Saturday will be "The Construction of Plant Houses," on which an essay will be delivered by Mr. W. A. Burnham of the Lord & Burnham Co., Irvington, New York.

Cut flower trade continues fair. Transient trade is poor and flowers are purchased in smaller amounts than has been customary, but there has been the usual number of dinners, receptions and occasions of like nature which have kept the retail florists busy, and as the cut is not very heavy in any line at present the stock coming in has been distributed without difficulty.

Chicago.

Last week was really encouraging to to the trade; though flowers were scarce —or perhaps because flowers were scarce —trade was excellent, and stock went at good prices. For several weeks really first-class stock has been short, especially the best roses, and this has kept prices firm. The shortage must have been general, as the commission men report an excellent shipping trade, not only to western points, but to places in Ohio, Michigan, Pennsylvania, and other points east of Chicago. This week prices have dropped a little, but still are better than they were. Last week Brides and similar roses went up to $8, but they now stand at $6, the same price prevailing for Woottons and Meteors. The Meteors are not so good as they were, being very black, and often with crumpled petals. Perle, Niphetos and Gontier have climbed a little, now being $3 to $4. Beauties keep scarce; at no time this winter has there been a surplus of good blooms; they run from $10 to $35. Jacqueminots have dropped to $2 a dozen; they are fine and well-colored. A limited quantity of pink hybrids have been seen, but they are not yet in regular supply.

Good carnations seem inclined to hold up, ranging from $1 to $1.50 for ordinary; fancy $2, and extra fancies $3, Daybreak and Scott being the usual varieties, but they are both in short supply. Extra quality Garfield are graded as fancies, but are very short, and not up to the demand. Violets are not very plentiful, and are worth $1 to $2; last week the supply could not reach the demand. Northrup is cutting extra fine violets, but many local growers report failure, partial or complete, with these flowers this winter.

Bulb stock is very slow. When there are plenty of roses and carnations bulbs will not sell. Even valley is slow, the best quality going for $4, and much is sold under this price. The valley that sells first is that which is carefully graded, not firsts, seconds and culls all together.

Dutch hyacinths are the highest priced of the smaller bulb stuff now, bringing $6 to $8 for extremely fine quality.

Romans still languish at $2 to $3. Daffodils do not go as well as they did; they are plentiful at $3 to $4, tulips are the same, and go very slow. Yellow tulips seem to go best, but the demand is very capricious. Harrisii has stiffened a little, going from $5 to $12.50. W. N. Rudd is sending in very fine Harrisii. Callas do not sell well.

Among miscellaneous flowers nice mignonette sells for $2 to $4; forget-me-nots at $1 to $2, and marguerites at $1. Greens are stationary. It is likely that business will drop off for a few days after Ash Wednesday, but it is not likely that Lent will make a great difference to the trade.

H. E. Redelings has succeeded Redelings & Peters at 804 Milwaukee avenue.

M. Olsen has sold an interest in his wholesale commission business to H. R. Hughes, and the business will hereafter be conducted under the firm name of Olsen & Hughes.

Washington.

One day recently at noon the thermometer stood 64°, while at the same time one year ago it registered but 23°.

Business is picking up a trifle, but is not up to the standard. No large dinners nor receptions are being given where the florist can get in a good decoration. Teas and luncheons still hold sway. There are several good decorations booked for the latter part of the month. The majority of society people seem to be holding back for the close of the social season for their important dinners and it will then probably be a rush as to who can make the greatest show.

Flowers are more plentiful than they have been since the holidays and the quality is generally good.

Secretary and Mrs. Carlisle recently entertained the President and Mrs. Cleveland at dinner, at which all the members of the cabinet and their ladies were present. The decorations were green and white. Every nook and corner was filled with foliage plants. The mantels were filled with white azaleas and primulas in pots, the pots being hid in a mass of asparagus. The handsome mirror above the mantel was gracefully festooned with asparagus, which hung in small delicate strings over the glass, reaching to the flowers below. The crystal chandelier over the dining table was festooned with the same green. The centerpiece was a large oval basket of ferns studded with cypripediums and Bride roses. The cloth was strewn with maidenhair fern. The tapers in the low silver candelabras burned under green shades. The name cards were a lily leaf. Corsages and boutonnieres were of white roses.

At the second state dinner of the season in honor of the diplomatic corps the table decorations were somewhat different from those usually gotten up for such occasions, as there was no set design for a centerpiece. Instead of the floral globe, which has been used so often, on which the divisions of the continent were represented in various kinds of flowers, there was arranged down the center of the long table, which was in the shape of a large Roman I, a flat of asparagus about 12 feet long and 2 feet wide, which was studded with Mermet roses and Marguerites. In the center of this flat stood a fine phœnix and near either end was a fine plant of Dracæna Goldieana. Across the ends of the table was one oval and two round baskets of asparagus, studded in the same manner as the center. The wax tapers in the gold and silver candelabra were capped with pink shades, the idea of a pink dinner being further carried out in the confections and bon-bons. There were over 500 fine Mermets used in this decoration of the table. The chandeliers were festooned with smilax and every corner in the room was filled with tall rubbers reaching nearly to the ceiling, with a few small palms and dracænas grouped about them. The two mantels were banked with echeveria flowers studded with valley, having for a center a plant of Cocos Weddeliana, and near each end was a variegated pineapple. These mantels were unique indeed; the bright echeveria flowers showed up beautifully when the electric lights were turned on. Sprays of valley floated in the finger bowls. The entire dining room presented a beautiful effect, it being entirely different from the usual set decorations used on such occasions. Mr. Pfister has every reason to feel proud of the success in this change. I heard Mrs. Cleveland express herself as being delighted with it.

In the east room, where the guests were received, the decorations were similar to the last. The west mirror rests were banked with Adiantum Farleyense and high colored crotons, Dracæna Goldieana and Pandanus Veitchii. The two east mantels were banked with carnations, roses and Romans. The center divan was crowned by a fine specimen of sago palm.

The red room was decorated with foliage plants in windows and corners, mostly rubbers and palms, with a few ferns to add grace. The mantel was banked with white double hyacinths and Pandanus Veitchii.

The blue room was prettily decorated with various foliage plants in windows and on mirror rests. The mantel was banked with double white azaleas and primroses in pots, red tulips and hyacinths. The beautiful divan was surmounted by a fine plant of nepenthes having a number of pitchers hanging over the handsome jardiniere.

The green room was decorated with foliage plants, the mantel being banked with primulas and tulips intermingled with foliage plants. No electric lights were used in this decoration.

C. LESLIE REYNOLDS.

St. Louis.

Since last report we have had a week of steady cold weather which has had the effect of keeping stock scarce, especially as many growers are off crop. The chances are that the first part of Lent will see stock present in much greater abundance, and the recent cold wave that swept through the south is looked upon to relieve the market as its effect is already felt in the shipping trade. It has most effectually cut off the violet supply for the time being as there has been but one shipment received that amounts to anything during the week.

The retail men are cleaned out early in the day and it makes the growers and wholesalers kind of blue to be unable to fill their wants, more especially so when they remember that not so very long ago they could not give them flowers, and with the prospect of the same state of affairs existing in the not very distant future.

At a ball given recently the Ayers Floral Co. furnished a very pretty and extensive smilax decoration. The upper and lower ends of the hall were banked with palms, which formed screens behind which were placed a brass and string band which alternated. Along the walls were hung palms in pot guards which were decorated and suspended by American Beauty ribbon. From the central chandelier streamers of smilax were carried on all sides to the balcony in two tiers, the lower connecting underneath and the upper with the railing. The front of the balcony was also dressed with smilax from the railing to the bottom. The remaining four chandeliers were covered with smilax. Among the streamers leading from the central chandelier were placed numerous fairy lamps, which greatly added to the charming effect. The two lower corners were separated from the hall by curtains of smilax forming secluded nooks. The decoration as a whole was very pretty and was well carried out.

Mr. John Young, who has been slightly under the weather, is feeling much better and will be able to hold up his end of bowling from now on.

Mr. Atkinson, representing Pitcher & Manda, was in town during the week, and reports finding buyers very conservative.

The date set for a hearing of the suit of Mr. Jablonsky against the Haydock estate was reached last week, and a continuance, asked by Mr. Jablonsky owing to the absence of witnesses, was granted.

R. F. T.

Toronto.

The annual dinner of the Gardeners' and Florists' Association, which took place on Wednesday last, was—as one of the daily papers remarked the next day—a huge success. The attendance was not quite so large and the decorations were not so profuse as of yore, the former owing probably to hard times and the latter to the scarcity of roses at the time; what was lacking, however, in these was fully made up by an increase in the fun, good humor and general jollification. The comic songs sung by Mr. F. Wright and Mr. H. Endean were, outside the speeches, the feature of the evening. Messrs. C. J. Tidy, G. Manton, H. Cole, W. Muston, H. Simmers, A. McNaughton and others also contributed to the evening's enjoyment by singing songs sentimental and otherwise.

The president, Mr. A. Gilchrist, made an exemplary chairman and was entirely successful in carrying out the program without a hitch. Aldermen did not materialize to as large an extent as usual, Ald. Hallam and ex-Ald. Saunders being the only ones to represent the city corporation. John Chambers, although he has not yet fully recovered from his last serious illness, was there and ably represented the city parks and gardens. Mr. Geo. Vair and Mr. W. Muston responded to the toast of "Sister Societies," the latter on behalf of the American Carnation Society. To "Our Association" Messrs. John Chambers and Thos. Manton responded. I should have liked to have given the latter's speech in full, but unfortunately the management omitted to engage a stenographer. "Our profession" was done justice to by Mr. S. E. Briggs and Mr. Geo. Reeves. The president and treasurer (Mr. H. Simmers) modestly responded for "Our Officers." "The Ladies" were attended to by Messrs. H. Simmers and F. Burfitt. "Auld Lang Syne" and "God Save the Queen" finished up the most enjoyable evening the association has ever had.

There is no change worth recording in the state of trade. The weather still keeps comparatively mild, with the average of sunshine below par. The mean temperature for the month of January was 28° and a fraction. E.

Baltimore.

Trade has been fluctuating in character this week, one day nothing to be had for love or money, the next everybody glutted. Lilac blooms have appeared in small quantity. Violets are becoming more plentiful and can be had in good quality at fifty cents a hundred. Jonquils are in pretty good supply at three cents. Good roses can only be had in limited quantity and prices continue very fair, La France 8 cents, Perles 6.

The club has gotten up a schedule for the next chrysanthemum show, and a very satisfactory one for everybody to judge from the few expressions of dissatisfaction. Any one sending a worthy exhibit in any class will be entitled to a certificate setting forth the merit of the entry. The first section of the carnation entries is to be free to all. Except that some premiums are made larger and a few altered the rest of the list is much the same as last year.

Fire damaged Mr. Jno. Donn's establishment on Erdman avenue, to the extent of $800.

Mr. Robt. J. Halliday is reported to be steadily improving. MACK.

St. Paul, Minn.

Trade is unmistakably dull this month. The city is dead *socially* this winter and with Lent almost upon us, florists will have to depend on "funeral work" more than ever until after Easter. Notwithstanding the dull trade, however, there does not appear to be a surplus in the market. This is accounted for by the unfavorable weather of the past few weeks and the fact that most roses are now "off crop." Prices are quite firm and if trade is light there is satisfaction in knowing that everything sells at a profit.

Chris Hansen has closed the store he recently opened on Robert street.

Alderman Warren has opened up a second store on Third street. A fire in the new establishment did some damage recently. We believe, however that it was not very serious. Just at present he is in the south with his family.

Stock about town is looking fairly well and seems to be coming on well for an early Easter trade. Harrisii and azaleas are well along while an abundance of tulips, Von Sions and other bulous stock will be brought in later on.

A recent visit to May & Co's. extensive establishment found every department very busy. This firm does a very large wholesale and retail plant and seed business, besides a large cut flower trade and a retail nursery business. At present they are mailing their annual catalogue.

FELIX.

SITUATIONS, WANTS, FOR SALE

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head

SITUATION WANTED—By a first-class florist to take charge of roses and chrysanthemums. Address R S, care American Florist. Chicago.

SITUATION WANTED—In private place, as gardener, by man of experience; married and small family. Good references. TROPIC, care Am. Florist.

SITUATION WANTED—By first-class florist, to take charge. Thoroughly experienced in all branches. Al references. FLORIST, box 765, Kalamazoo, Mich.

SITUATION WANTED—By first-class florist; 18 years' experience; single. Best of references. Private or commercial place. Address F O, care American Florist.

SITUATION WANTED—By young man of 16 as an assistant; have worked 2 years in Orphans Home greenhouses. Address FLORIST, O. S. and S. O. Home, Xenia, Ohio.

SITUATION WANTED—Florist, age 21; best of references; wishes position, either private or commercial place. Please state wages. Address F. W., 47 Linden St., Brooklyn, N. Y.

SITUATION WANTED—By a young Holland gardener. Best references can be given from Haage & Schmidt, Germany. One year in this country. Address B G, care American Florist, Chicago.

SITUATION WANTED—As florist or propagator in growing roses, carnations, palms, orchids and general stock; 18 years experience, single; commercial or private place. Address P O, care Am. Florist.

SITUATION WANTED—By first-class designer a situation where artistic work is appreciated Fast worker; steady and sober. Moderate salary but steady place expected. Address Y Z, care Am Florist.

SITUATION WANTED—By first-class florist; grower of roses, palms and general stock; also good propagator; 16 years' experience; 31 years of age; single; German. Good references. Address R M, care American Florist, Chicago.

SITUATION WANTED—By a married man as headgardener on private place; understands rose, grape and plant growing, and management of a gentleman's place. Good references. Address GARDENER, Fishkill-on-Hudson, N. Y.

SITUATION WANTED—By a young man who has had 5 years' experience in geoeral stock growing and greenhouse work. Has also had experience in mailing department. Can furnish good references. Address O C H, box 55, Calla, Ohio.

SITUATION WANTED—As manager, foreman or headgardener in commercial or private place; a thoroughly experienced florist, fruit and vegetable grower; married, no children. East preferred. Good references. Address E C, care Am. Florist.

SITUATION WANTED—By intelligent, energetic man of strictly temperate habits as foreman in commercial establishment. Well up in modern methods of culture, and if necessary could take charge of books and correspondence. A B C, care Am. Florist.

SITUATION WANTED—By unmarried Scotch gardener; 14 years' experience in this and the old country; 4½ years as foreman in the largest wholesale and retail catalogue plant business in Canada. Address for further particulars GEORGE WATT 297 East Avenue N, Hamilton, Ont., Canada.

SITUATION WANTED—A young man, pushing and energetic, desires correspondence with persons wanting good hand in commercial or private place; 8 years' experience. Good propagator, forcer and grower of greenhouse stuff; experienced in mushroom growing—place where they could be handled preferred. Best of references. Satisfaction sure. Wages $12.00. Eastern states. Address MUSHROOM, care American Florist, Chicago.

WANTED—Charge of greenhouses; convenient. Small capital. H S, care American Florist.

WANTED—An experienced grower of roses, carnations, and general stock of plants. Address F. V. R. STILLMAN & Co., Wellsville, N. Y.

WANTE —To rent or buy, either a florist store or small plant in good location. Send full particulars to S. BATSON, Kalamazoo, Mich.

WANTED—Man to grow roses and carnations; also one to grow chrysanthemums and general stock. Address COLE BROS., box 577, Peoria, Ill.

WANTED—A single man for palms and ferns; one that can be of occasional use in retail store. Address H. F. HALLE, 548 W. Madison St., Chicago.

WANTED—Interest in or charge of greenhouse, commercial or private, by young man, married, German; thorough in all branches, in German and American growth. Foreman for 10 years in one place. Good references. Address A C L, box 14, Calla, O.

WANTED—Greenhouse, grape and rose gardener. Best of references. Must have been 2 years or more in one place; no children; not over 37 years old; good worker; married; $50.00, cottage, etc. tree; on railroad, 25 miles from city. Address B A, care American Florist, Chicago.

WANTED—Two single men with good habits and address that speak English fluently, who understand steam heating and growing of roses, carnations, chrysanthemums and other general stock, also floral work and selling same. State wages; send references Good chance to work up Also a gardener wanted. Address ROCKY RIVER NURSERY & GREENHOUSES care Fries & Schuele, Cleveland, O.

TO LEASE—Greenhouse, 2000 sqr. ft. glass. Lessee must buy stock. THEO. NOEHLE, Green Bay, Wis.

FOR RENT—At Riverside, Ill., greenhouses, boiler, pipes; all in running order. Rent cheap. Call or address PETER READEY, 1011 Ogden Ave., Chicago.

FOR SALE—4,000 feet of glass in the center of the city, and one store in the business part of the city; all for sale cheap. Well stocked. Address JOHN SCHNEIDER, Kansas City, Mo.

FOR SALE—Two greenhouses well stocked, and 7-room dwelling. Only florist in the county; business long established. $2,000 cash required. Will bear investigation. Compelled to move on account of wife's poor health. Address INDIANA, care Am Florist.

TRUST SALE OF REALTY.

By virtue of the power and authority vested in me by deed of trust from M. Tritschler and wife, recorded in the Register's office of Davidson County, Tenn., Book 173, page 246, I will sell for cash, without redemption, at the court-house door in said county, at 12 o'clock m. on

Tuesday, February 13, 1894,

Lots Nos. 269, 270, 271 and 272 in J. M., T. J. and G. W. Harding's addition to North Nashville; said lots front 45 feet each on south side of Hyde's Ferry pike and run back 150 feet to an alley.

The above property is known as the "Tritschler Gardens," and contains two new dwellings, four greenhouses, steam and water-works, two good wells, wind mills, blacksmith shop and stable.

B. J. FARRAR, Trustee.

Olea Fragrans.

MAGNOLIA FUSCATA, CAPE JASMINE, CASUARINA, RED CATTLEY GUAVA, PITTOSPORUM, CAMPHOR TREES, ORANGES and LEMONS, grafted on dwarf stock.

2,000 BIOTA Aurea Nana, our new dwarf Golden Arbor-vitæ, a perfect gem.

☞Send for trade list, giving prices for other desirable florist's stock.

ADDRESS **P. J. BERCKMANS,**

Fruitland Nurseries, **Augusta, Ga.**

SPECIAL OFFER FOR 30 DAYS

To Introduce Our Superb Progressive XX and XXX Mammoth Verbena Seed.

There'll be some that will span the silver half and make progressive Florists laugh. Once plant, and you'll a customer be. That's what we are after, don't you see. Large trade packet **XX 20 cents; XXX 30 cents** for 30 days only. (To secure these rates, mention special offer; use both grades). In Gibson's sweet scented Hybrids you will find all that can be desired in the **Pansy** ⅛ oz., $1; ¼ oz., $1.60; transplanted seedlings 75 per hundred. Our hand hybridized **Double Petunia** seed will produce the kind you will want to sell. Fine doubles and frilled singles. 500 seeds 75c, 1,000 seeds $1.25. The double white scabiosa snowball is the best thing out for summer and fall cutting ⅛ oz. 25c., ¼ oz. 40c., ½ oz. 60c. Seeds all by mail postpaid. Descriptive wholesale price-list of **Novelties** and **Specialties** free to all. Address, cash with order please.

J. C. GIBSON, Woodbury, N. J.

New, Rare and Beautiful Plants.

A large collection of choice Hothouse and Greenhouse Plants, carefully grown, at low rates.

RARE AND BEAUTIFUL EVERGREENS, ORNAMENTAL TREES, SHRUBS, &c.

ORCHIDS.—A very extensive stock; East Indian, Northern, Central and South American, etc.

PÆONIES.—A collection of the finest in cultivation.

Hardy Perennials. Phloxes, Japanese Iris, Roses, Clematis, etc. New and Standard Fruits, etc.

☞Catalogues on application.

JOHN SAUL, Washington, D. C.

ALTERNANTHERA.

Strong, rooted cuttings, propagated last fall.

P. MAJOR, best red $6.00 per 1000
A. NANA, best yellow 5.00 per 1000

HEITE FLORAL CO., Kansas City, Mo.

VERBENAS, MAMMOTH, perfectly clean, strong plants, $2 per 100. Transplanted Cuttings, $1.00 per 100. Rooted Cuttings, $6.00 per 1000. All to color. Cash.

W. B. WOODRUFF, Florist, Westfield, N. J.

CYCLAMEN GIGANTEUM. | **PRIMULA CHINENSIS.**

Good plants from best seed.

A. S. MacBEAN, Lakewood, N. J.

MAIL LOCK THE DOOR BEFORE THE HORSE IS STOLEN. *DO IT NOW.*

JOHN G. ESLER, Sec'y F. H. A., Saddle River, N. J.

THE GREAT ANTIPEST.

For particulars, see next week.

R. W. CARMAN, GEN'L AGT.,

291 Amity Street, FLUSHING, Queens Co., N. Y.

Providence, R. I.

The annual meeting of the R. I. Horticultural Society was held January 17. The various reports showed the society to be in a healthful and prosperous condition. Although the year has been a disastrous one to business generally and money apparently scarce among the people, this society has continued its work as usual and the financial results are satisfactory, the society being in good financial condition.

Outside of exhibitions, of which four have been held, the society holds monthly meetings at which papers are read on subjects of interest in the work in which we are engaged. Our chrysanthemum exhibition was a great success in point of exhibits and attendance, an account of which appeared in your valuable journal at the time.

The officers elected for the ensuing year are as follows: President, Joseph H. Fanning; 1st vice-president, Levi W. Russell; 2nd vice-president, Thomas K. Parker; secretary and treasurer, Charles W. Smith; botanist, Prof. W. Whitman Bailey; librarian, Thomas K. Parker; auditors—C. C. Armstrong, Wm. J. Danielson, E. A. Dean; finance committee—Joseph C. Johnson, C. C. Godfrey, John G. Massie.

Mr. John G. Massie, who has served the society for two years as its president, declined a re-election on account of pressing business matters outside. Mr. Massie is treasurer of one of our largest savings banks and as a consequence he is a very busy man. Mr. Fanning, the president, is a successful jewelry manufacturer and has served the society before in a similar capacity.

After adjournment the members were invited to an oyster supper, which was greatly enjoyed.

Under the management of its new president the society looks forward to a new era in its life and to a successful year of business and usefulness. C. W. SMITH.

GRAND HAVEN, MICH.—Mrs. Geo. Hancock died last week. She was a great lover of flowers and spent much of her time in her earlier years in their cultivation. This admiration for flowers led practically, later on, to the founding of the business now carried on by the firm of Geo. Hancock & Son.

CINCINNATI.—Business has been better for the last few weeks and is still improving. Stock is also better.

CONTRACT NOW for FORCING ROSES

for your next season's planting and secure well rooted stock grown specially for your order. Last year, owing to the heavy demands made upon us at planting time, we were unable to fill many orders, thus disappointing our customers. We are now contracting to grow, for delivery when wanted, the leading varieties of forcing roses—including the new kinds. **BRIDESMAID**, the best pink grown; **KAISERIN** and **TE-TOUT**; also Meteors, Beauties, Woottons, Brides, La France, etc., etc.

We earnestly request intending purchasers to submit us a list of their wants, and we will be pleased to quote them special prices for strong, well rooted plants to be delivered when they may designate.

We make a Specialty of Growing Roses for the trade. Having experienced and competent growers. Our stock is first-class in every particular and we guarantee satisfaction. Of the many hundred unsolicited testimonials we append the following: "Roses got of you last year have been the best bearers we have in our houses. RIVERSIDE FLORAL CO., Marshalltown, Iowa."

Order Early and secure the Best.

L. L. MAY & CO.,

Florists and Seedsmen, ST. PAUL, MINN.

Our Wholesale and Retail Catalogue for 1894 mailed free on application.

When writing to any of the advertisers on this page please mention the American Florist.

YOUNG ROSE PLANTS

We offer the following very choice plants in 2-inch pots:

	Per 100		Per 100
Am. Beauties,	**$7 00**	**Mermets,**	**$3 50**
Bridesmaids,	**5 00**	**Perles,**	**3 50**
Kaiserin,	**4 00**	**Woottons,**	**3 50**
La France,	**3 50**	**Mme. Hoste,**	**3 50**
D'ch. of Albany,	**3 50**	**Bennetts,**	**3 50**
Brides,	**3 50**		

The above stock is very strong and healthy, and propagated from selected wood. We raised the above to grow for ourselves, and it will give better satisfaction than stock which has been raised simply to sell.

BASSETT & WASHBURN,
Hinsdale, Ill.

BUSINESS. BUSINESS.
— AT —
HARD-TIME PRICES.

Send for Special Spring Import List of

DWARF-BUDDED AND TREE ROSES, CLEMATIS, ETC.

GROWN BY THE

Boskoop Holland Nursery Association.

THE PRIZE WINNERS AT WORLD'S FAIR, CHICAGO. SPECIAL PRICES.

Address **C. H. JOOSTEN, Agent, 3 Coenties Slip, NEW YORK.**

READ WHAT FOSTITE IS DOING FOR THE FLORIST against Mildew on Roses, and Carnation Rust.

"We are highly pleased with your Fostite and Bellows. *No investment ever paid me better. Not a speck or spot of Mildew on the place.*"

Signed, ALBERT KNOPF, President Franklin Park Floral Co., Columbus, O.

Roses. Roses. Roses.

We have a very fine stock of the following plants, from 2-inch pots, which we are pleased to offer.

	Per 100		Per 100
AM. BEAUTY,	$7.00	KAISERIN,	$4.00
BRIDESMAID,	5.00	PERLES,	3.50
LA FRANCE,	3.50	WOOTTONS,	3.50
ALBANY,	3.50	MME. HOSTE,	3.50
BRIDES,	3.50	BENNETTS,	3.50
MERMETS,	3.50		

CHRYSANTHEMUM PLANTS, (Send for our list) - $3.00 per 100

This stock is all grown from the best and strongest wood, and we are certain that it will give satisfaction.

J. B. DEAMUD & CO.,
45 Lake St., **CHICAGO.**

Forcing Roses.

A stock of the best varieties always on hand.

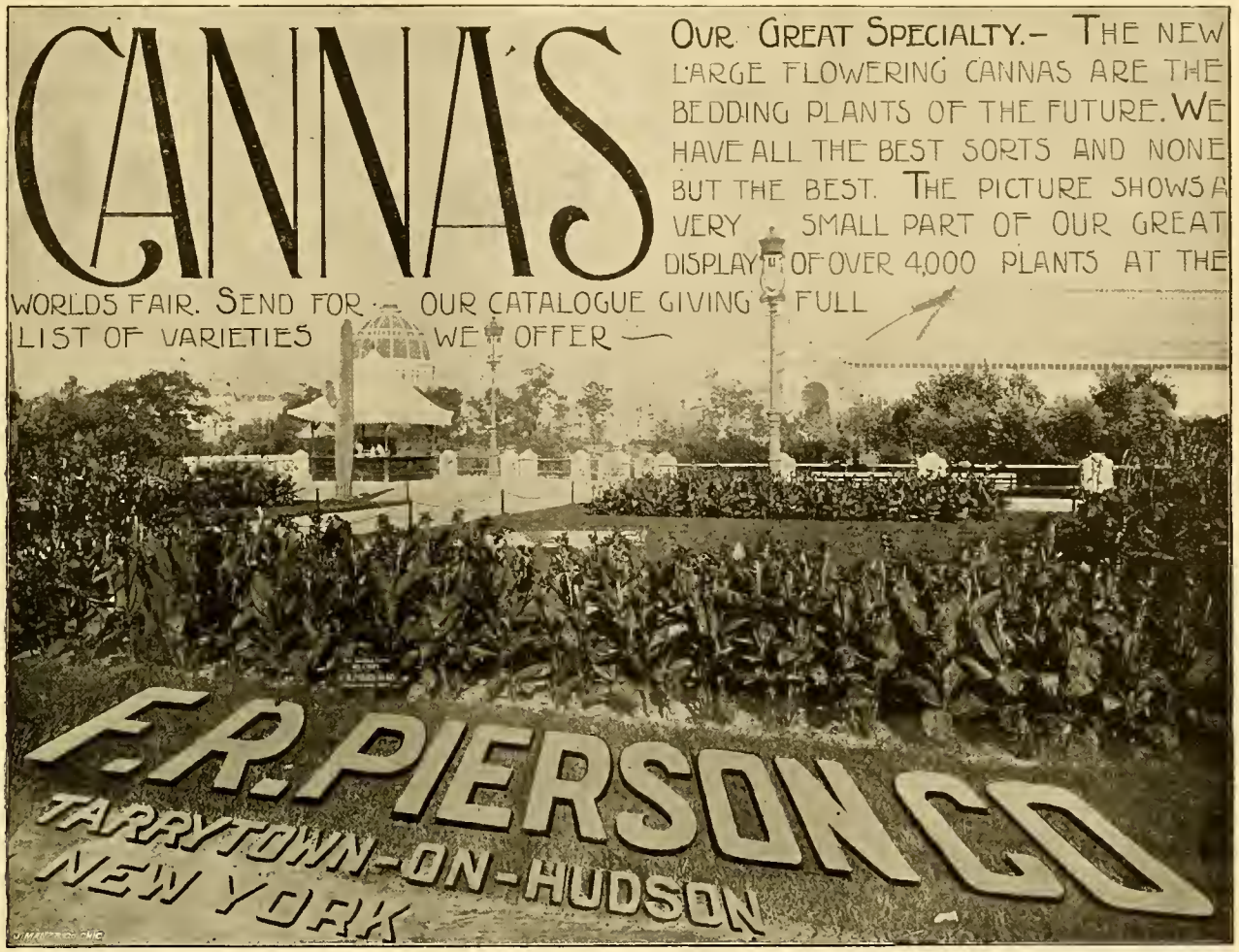
M. A. HUNT, Terre Haute, Ind.

ROOTED CUTTINGS.

Brides, Cusins,
Bridesmaids, Niphetos,
Meteors, Perles,
Hostes, Beauties,
Mermets, Testouts, La France.

Address for quotations

T. W. STEMMLER,
Villa Lorraine Roseries, MADISON, N. J.



NEW PLANTS
OF STERLING MERIT.

ROSE MRS. W. C. WHITNEY.

CHRYSANTHEMUMS:

Yellow Queen, Achilles, Malmaison, Mayflower, Minerva and Titian,

and all other really good things in this line.

JOHN N. MAY,
SUMMIT, NEW JERSEY.

ORCHIDS SUITABLE FOR THE TRADE
The Leading kinds for cut flower purposes.

I. FORSTERMAN,
NEWTOWN, L. I., N. Y.

CANNAS, CHRYSANTHEMUMS.
The best only, at lowest trade prices. Catalogue No. 15 on application.

T. H. SPAULDING, Orange, N. J.

THE AMERICAN FLORIST and *Gardening* together to one address for $1.75. Send orders to the American Florist Co.

Please mention the AMERICAN FLORIST every time you write to an advertiser.



EVERGREEN CUT FERNS
ESPECIALLY FOR FLORISTS' USE.

$1.25 PER THOUSAND FERNS.

IN LOTS OF 5000 AND UPWARDS, $1.00 PER 1000. Ferns furnished the year round. Special attention given to supplying the Wholesale Trade.

L. B. BRAGUE, Hinsdale, Mass.

Mention American Florist.

Wild Smilax, Pines and Palmettos
FOR DECORATIONS
AT LOW FIGURES.

Low freight rates by steamer to New York, Boston, Philadelphia and Baltimore.

A. C. OELSCHIG,
SAVANNAH, GA.

Mention American Florist.

Galax Leaves.
You cannot afford to be without them if you sell Cut Flowers and Decorate. Especially for Christmas. Big money in them. I sold 300,000 in 3 months last winter. **$2.00 per 1000** by express. Sample 100 sent by mail on receipt of 50c.

LINCOLN I. NEFF, Florist,
4010 Butler St., PITTSBURG, PA
AGENT FOR HARLAN P. KELSEY.

FLORAL DESIGNS
The Cut Flower Worker's Friend. Fine book of 160 pages. Send **$3.50** for it, to

J. HORACE McFARLAND, Harrisburg, Pa.

Siebrecht & Wadley,
ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.

Palms,
ORCHIDS,
Roses,
and New Plants.

FRESH DRACAENA CANES NOW READY.

ORCHIDS.
The Finest Stock in the World.

SANDER'S,
ST. ALBANS,
ENGLAND.

Thirty minutes from London.

Our Mr. A Dimmock will be pleased to interview buyers or reply to any communication addressed to him at 205 Greenwich Street New York City

EXTRA CHOICE FLOWER SEEDS.
List free on application.

FRED. ROEMER, SEED GROWER,
QUEDLINBURG, GERMANY.

THE AMERICAN FLORIST

Subscription $1.00 a Year. To Europe, $2.00.

Advertisements, 10 Cents a Line, Agate; Inch, $1.40; Column, $14.00. Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent. No reduction made for large space.

The Advertising Department of the AMERICAN FLORIST is for Florists, Seedsmen, and dealers in wares pertaining to those lines ONLY. Please to remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Monday to secure insertion in the issue for the following Thursday.

Address THE AMERICAN FLORIST CO., Chicago.

Our New Directory.

In spite of all our efforts to get the book out on time this year, and our early start on the work of covering the country by correspondence, etc., we shall be unable to have complete books before March 1. We have been obliged to send third inquiries to about 10% of the list and in some cases a fourth request to secure needed information or to verify doubtful names. Parts of the book that were already complete are now being put into type and the work is being crowded in every way possible. Never before has so much labor and expense been lavished upon the compilation of a list of these trades, and it will certainly be a credit to the profession. The price will be $2.00 a copy. Let us book your order now. You can't afford to be without this book.

Catalogues Received.

John N. May, Summit, N. J., roses, carnations and chrysanthemums; Currie Bros., Milwaukee, Wis., seeds and plants; Cox Seed and Plant Co., San Francisco, seeds and plants; Wm. H. Spooner, Jamaica Plain, Mass., roses; Theo. Koss, Milwaukee, Wis., seeds; J. L. Dillon, Bloomsburg, Pa., verbenas, carnations, roses, etc.; Youngers & Co., Geneva, Neb., nursery stock; Muncie Floral Co., Muncie, Ind., plants; Memphis Floral Co., Memphis, Tenn., plants; Nathan Smith & Son, Adrian, Mich., chrysanthemums and carnations; W. W. Wilmore, Denver, Col., dahlias; Andorra Nurseries, Chestnut Hill, Philadelphia, Pa., hardy trees, shrubs and plants; Fancher Creek Nursery, Fresno, Cal., nursery stock and plants; C. Hennecke Co., Milwaukee, Wis., flower pots, jardinieres, etc.; E. H. Hunt, Chicago, seeds; Wm. Baylor Hartland, Cork, Ireland, seeds and bulbs; J. Roscoe Fuller & Co., Floral Park, N. Y., seeds, bulbs and plants; Vick & Hill, Rochester, N. Y., trade list plants.

AMONG THE SPRING catalogues received one of the daintiest covers noted is that of J. M. McCullough's Sons. It is a very simple and natural arrangement of cosmos, pink and white, as soft in its tints as a water-color, and a welcome change from the glaring color and crowded arrangement so often seen. We are informed that this excellent bit of work was designed by one of their employes.

LET US book your order now for a copy of our new trade directory and reference book to be issued next month. Price $2.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser in these columns.

CORBREY & McKELLAR,
Wholesale and Commission Florists,
Phone Main 4508. **45 Lake Street, CHICAGO.**
We are prepared to fill your orders with First-Class Flowers.
Give us a trial order.

FOR DECORATING, NOTHING CAN EQUAL
ASPARAGUS PLUMOSUS NANUS.
CUT STRINGS 8 TO 12 FEET LONG, 50 CTS. 12 TO 18 FEET LONG, $1.00.
Shipped in large or small quantities to any part of the country. Orders by mail, telegraph or telephone.
W. H. ELLIOTT, Brighton, Mass.

FINE STRINGS OF
ASPARAGUS PLUMOSUS
8 to 10 feet long, 50 cents a string
JOHN BURTON. CHESTNUT HILL P. O., PHILADELPHIA.

GEORGE A. SUTHERLAND,
SUCCESSOR TO
PECK & SUTHERLAND,
Successors to WM. J. STEWART,
CUT FLOWERS
and Florists' Supplies.
WHOLESALE.
67 Bromfield St., BOSTON, MASS.

HARDY CUT
FERNS!
5,000,000 ON HAND.
EVERYTHING GREEN ALWAYS IN STOCK.
H. E. Hartford,
18 Chapman Place, BOSTON, MASS.
Mention American Florist.

Orchid Cut Flowers.
CATTLEYAS, $50 per hundred.
PITCHER & MANDA,
UNITED STATES NURSERIES,
SHORT HILLS, N. J.

ROOTED CUTTINGS OF EVERY DESCRIPTION.
Verbena, foliage, Ivy, Rose and flowering Geraniums, double Petunia, Daisy, Violets, dwarf Alyssum, Lobelia, Coleus, etc. Carnations: Portia, Silver Spray, Mrs. Mangold, Grace Wilder, Lamborn, Garfield, and many other kinds, $1 per 100.
DENVER CITY NURSERIES,
P. O. Box 201. SOUTH DENVER, COLO.

1,000 EXTRA FINE SMILAX
7 to 8 ft. heavy, 12½ cents per string.
Lighter stuff, 10 cents per string.
CASH WITH ORDER OR C. O. D.
CHAS. POMMERT, - - GREENFIELD, O.

Wholesale Florists
The LaRoche & Stahl Flower Co. Limited.
N. E. CORNER 13th & Chestnut Sts.
PHILADELPHIA.
Mention American Florist

SAMUEL S. PENNOCK,
Wholesale Florist
REAR OF 42 S. 16th STREET,
Philadelphia, Pa.

H. L. SUNDERBRUCH,
Wholesale Florist
4TH AND WALNUT STREETS,
Cincinnati, O.

W. ELLISON,
WHOLESALE
Cut Flowers AND Florists' Supplies
1402 PINE STREET,
St. Louis, Mo.

C. A. KUEHN,
(Successor to ELLISON & KUEHN),
WHOLESALE
FLORIST,
1122 PINE STREET,
St. Louis, Mo.
A complete line of Wire Designs.

DAN'L B. LONG,
COMMISSION • FLORIST,
495 Washington St., BUFFALO, N. Y.
FORCING BULBS, FLORISTS' SUPPLIES, LONG'S FLORISTS' PHOTOGRAPHS.
Lists, Terms, &c. on application.

E. H. HUNT,
WHOLESALE FLORIST

79 Lake Street, CHICAGO.

	Per 100
Perles, Niphetos, Gontier	$ 2.00@$ 4.00
Bride, Mermet, La France	4 00@ 6 00
Meteor Bridesmaid, Testout	5.00@ 7.00
Carnations, long, white	1.00@ 2.00
" " colored	1.50@ 2.00
" short	.75@ 1.00
Smilax	15.00
Callas, Harrisii	12.50
Romans, Paper White Narcissus	2.00@ 3.00
Violets	1.00@ 1.50
Lily of the Valley	4 00@ 5.00
Adiantum	1.00
Ferns, common per 1000 $2.50	.25

Cycas leaves, fresh, each $1; same preserved, each 75c.

Western Agent for the GREAT ANTIPEST.

FLINT KENNICOTT, President. FRED. W. H SUNDMACHER, Sec'y and Treas.

Kennicott Bros. Co.
34 & 36 RANDOLPH STREET,
CHICAGO.

WHOLESALE CUT FLOWERS,
and FLORISTS' SUPPLIES.

WIRE WORK A SPECIALTY.

General Agents for Chicago and the Northwest of Kelsey's Beautiful New Southern Galax Leaves, $2.00 per 1000; 25 cents per 100.

A. L. RANDALL,
Wholesale Florist,
126 Dearborn St., CHICAGO.

Agent for finest grades Waxed and Tissue Papers.

J. B. DEAMUD & CO.
WHOLESALE CUT FLOWERS,
45 LAKE STREET,
IN CUT FLOWER EXCHANGE, CHICAGO.

REINBERG BROS.
WHOLESALE GROWERS OF
CUT FLOWERS
Roses, Carnations and Violets Specialties.
51 WABASH AVENUE,
Telephone 4937. CHICAGO.

MONS. OLSEN. HORACE R. HUGHES.

Olsen & Hughes,
WHOLESALE CUT FLOWERS,
66 Wabash Ave., CHICAGO.

Tel. Main 4786. Consignments Solicited.

WHOLESALE FLORISTS
JOBBERS IN FLORISTS' SUPPLIES, FLORISTS' VASES.

METS,
BRIDES,
GONTIERS,
CARNATIONS,
ALWAYS ON HAND.

1 Music Hall Place,
BOSTON, MASS.
HORTICULTURAL AUCTIONEERS.

Wholesale Markets.

Cut Flowers.

NEW YORK, Feb. 3.

Roses, Bon Silene, Gontier, Niphetos	3.00
" Perle	4.00
" Mermet, Bride	5.00@ 8.00
" Cusin, Watteville	5.00@ 8.00
" Hoste	4.00@ 6.00
" La France	6.00@12.00
" Meteur	4.00@10.00
" Bridesmaid	8.00
" Beauty	5.00@60.00
" Hybrids	15.00@35.00
Carnations	75@ 3.00
Mignonette	2.00@10.00
Hyacinths, Narcissus	2.00@ 3.00
Valley, Tulips	2.00@ 4.00
Violets	.75@ 1.25
Harrisii	6.00@12 00
Smilax	10 00@15 00
Adiantum	1.00@ 1.50
Lilacs, per bunch	1.00@$1.50

BOSTON, Feb. 3.

Roses, Niphetos	3.00
" Gontier	4.00
" Perle, Sunset	5.00@ 6.00
" Bride, Mermet	6.00@16.00
" American Beauty	8.00@50.00
Carnations	1.00@ 2.00
" fancy	3.00@ 4.00
Lily of the valley	1.00@ 4 00
Roman Hyacinths, Freesia	1.00@ 1.50
Trumpet narcissus, Daffodils	2.00@ 4.00
Callas, Harrisii	6.00@10.00
Mignonette	2.00@ 8.00
Violets	65@ 1.00
Pansies, Myosotis	1.00
Tulips	2.00@ 4.00
Adiantum	1.00
Smilax	12.50
Asparagus	50.00

PHILADELPHIA, Feb. 5.

Roses, Perle, Gontier, Niphetos	3.00@ 4.00
" Cusin, Watteville, Hoste	4.00@ 5.00
" Bride, Mermet, La France	6.00@ 8.00
" Kaiserin, Bridesmaid, Testout	6.00@10.00
" Belle, Beauty	25.00@35.00
" Lainge	20.00@25.00
Carnations, H. Keller	7.00
" Ophelia, Sweetbrier, Daybreak	2.00@ 3 00
" Edna Craig	2.00@ 3.00
Valley	3 00@ 4.00
Romans, Paper white	2.00@ 4.00
Daffodils	3.00@ 5.00
Smilax	12.00@15.00
Adiantum	1.00@ 1.50
Violets	1.00@ 1.50
Mignonette	1.50@ 2.00
Asparagus	50.00@75.00
Harrisii lilies	10.00@12.00
Callas	6.00@ 8.00
Freesia	1.00@ 1.50
Tulips	4.00@ 5.00
Cattleyas	40.00

CHICAGO, Feb. 6.

Roses, Beauty	10 00@35.00
" Bride, Mermet, La France	4.00@ 6.00
" Perle, Niphetos, Gontier	3.00@ 4.00
" Wootton, Meteors	4.00@ 7.00
Carnations, short	.75@ 1.00
" long	1.00@ 1.50
" fancy	2.00@ 3.00
Violets	1.00@ 2.00
Valley	2.00@ 4.00
Romans	2.00@ 3.00
Callas	5.00@ 8.00
Harrisii	5.00@12.00
Tulips, Daffodils	3.00@ 4.00
Narcissus	2.00@ 3.00
Dutch hyacinths	6.00@ 8.00
Mignonette	2.00@ 4 00
Myosotis	1.00@ 2.00
Asparagus	50.00
Smilax	10.00@15.00

CINCINNATI, Feb. 2.

Roses, Beauty	25.00@75 00
" Mermet, Bride	5.00@ 6.00
" Perle	4 00
Tulip, yellow	3.00
Narcissus, Trumpet Major	3.00
" Von Sion	4.00
" Paper white	3 00
Romans	2 00
Valley	4 00
Callas, Harrisii	8.00
Smilax	10.00@15.00
Asparagus	50.00@75.00

BUFFALO, Feb. 5.

Roses, Beauties	15.00@25.00
" Mermet, Bride	6.00@ 8.00
" Bridesmaid, La France	12.00
" Gontier, Perle, Niphetos, Hoste	4.00@ 6.00
" Cusin, Watteville	5.00@ 6.00
" Meteor	6.00@12.00
Carnations, long	1.50@ 2.00
" Daybreak	2.00@ 2.50
" short	1.00
Hyacinths, Narcissus	2.00@ 3.00
Tulips, daffodils	3.00@ 4.00
Violets	1.00@ 1.50
Valley	4.00
Callas, Harrisii	12.00@15.00
Smilax	15.00
Adiantum	1.50
Asparagus	50.00

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St., BOSTON, MASS.
Mention American Florist.

BURNS & RAYNOR,
49 West 28th Street,
NEW YORK,
Wholesale Dealers in and Shippers of
Choice Flowers

OUR SPECIALTIES:
AMERICAN BEAUTIES,
METEORS.
BRIDESMAIDS.

CUT FLOWERS.
ROSES, standard varieties and novelties
Carnations, all the new sorts in finest quality.
VIOLETS, MIGNONETTE AND VALLEY.

FIRST QUALITY STOCK.
WHOLESALE ONLY.

THOS. YOUNG, JR.,
20 WEST 24TH ST., NEW YORK.

WALTER F. SHERIDAN,
• WHOLESALE •
FLORIST,
32 West 30th Street, NEW YORK.

Roses Shipped to all points. Price list on application.

FRANK D. HUNTER,
WHOLESALE DEALER IN
CUT FLOWERS,
51 W. 30th St., NEW YORK.

JAMES HART,
WHOLESALE FLORIST,
117 W. 30TH ST., NEW YORK.

The Oldest Established Commission House in N. Y.
LARGE SHIPPING TRADE. CAREFUL PACKING.

THEO. ROEHRS,
WHOLESALE
FLORIST,
111 WEST 30TH STREET,
NEW YORK CITY.
Established 1879.

MILLANG BROS.,
Wholesale Florists,
17 WEST 28TH STREET,
NEW YORK.
BRANCH: Cut Flower Exchange, 408 E. 34th Street.

Edward C. Horan,
34 W. 29th Street, NEW YORK,
WHOLESALE FLORIST.

Careful Shipping to all parts of the country
Price list on application.

The Seed Trade.

AM. SEED TRADE ASSOCIATION.

W. ATLEE BURPEE, Philadelphia, president; A. L. DON, secretary and treasurer, 114 Chambers street, New York. Next annual meeting second Tuesday in June, (will probably be held in Toronto.)

GEO. C. THOMSON has withdrawn from the firm of Mathieson—Thomson Seed Co., of Chicago and Robert Mathieson continues the business alone.

THE EXECUTIVE COMMITTEE of the American Seed Trade Association held their annual meeting at the Cosmopolitan Hotel, New York, on Tuesday, February 6. There were present, President W. Atlee Burpee, Secretary A. L. Don, Wm. Meggatt, S. F. Willard, Robert Livingston, E. B. Clark and I. B. Clark. The Wilson bill and its relations to the seed trade was one of the matters discussed. It was voted that while favoring the retention of the present rate of twenty per cent ad valorem as preferable to an abolition of all duties they would advocate as the sense of the association a specific duty of a higher rate rather than an ad valorem duty as calculated to encourage the importation of the better grades of seeds. This resolution will be presented to the general meeting of seed growers and seed merchants which is called to meet at Philadelphia on February 13. The next meeting of the Seed Trade Association will be held at Toronto on the second Tuesday in June.

Duty on Beans and Peas.

Inquiries have been made as to whether the duty of 20% on beans should not be 20 cents per bushel, same as peas.

The paragraphs in the Wilson bill covering the point are as follows: "196. Beans, twenty per centum ad valorem. 202. Peas, dried, 20 cents per bushel."

W.

British Imports.

The British Board of Trade returns give the value of imports of grass and clover seed into that country in 1893 at nearly 4 million dollars, the exact figures being £790,061, an increase of over ¾ of a million dollars over the imports of 1892.

The 1893 crops of grass seeds were again very short in Great Britain and the large figures noted above will doubtless rise still higher this season. Exporters on this side report a very brisk demand from Europe since the season opened. W.

Tariff on Seeds.

A meeting of seed growers and seed merchants will be held on Tuesday, February 13, at 11 a. m., Room No. 42, Girard House, Philadelphia.

1st. To adopt resolutions of protest against the placing of garden seeds upon the free list, as proposed under the provisions of the Wilson bill.

2d. To appoint a committee to present the resolutions to congress and ask for a hearing.

D. LANDRETH & SONS,
ROBERT BUIST, JR.,
HENRY A. DREER,
W. ATLEE BURPEE & CO.,
WM. HENRY MAULE,
JOHNSON & STOKES,
Z. DE FOREST ELY,
H. G. FAUST & CO.,
HENRY F. MICHELL.

Philadelphia, Feb. 3, 1894.



NEW CROP ONION SEED

$1.00 PER POUND—
Either RED WETHERSFIELD or YELLOW DANVERS.

$2.25 PER POUND for American Grown Prizetaker,
In lots of FIVE POUNDS of one kind or assorted as desired. With every $5.00 order goes FREE a copy of Greiner's Newest and Best Book, "ONIONS FOR PROFIT," telling all the Secrets of Success in Old and New ONION CULTURE.

If You Garden for Profit
you can save money and should buy at Wholesale Prices, as quoted in BURPEE'S BLUE LIST for 1894. It is mailed FREE to Market Gardeners everywhere, who, while entitled to *the lowest prices possible*, should always be sure to get Only the Best Seeds That Grow! BURPEE'S SEEDS ARE WARRANTED,—*few equal, none better*—and are annually sold direct to many more planters than are the seeds of any other growers.

W. Atlee Burpee & Co., Seed Growers, Philadelphia, Pa.

☞ If you have not already seen BURPEE'S FARM ANNUAL for 1894, write for it TO-DAY. A handsome book of 172 pages, it is pronounced by papers everywhere *The Leading American Seed Catalogue.* It tells all about the Choicest Vegetables and Most Beautiful Flowers for THE HOME GARDEN.

DOUBLE BEGONIA SEED.
HOW IS IT GROWN?

Good double begonia seed is difficult to produce, a proper double having no pollen. If single pollen is used a lot of worthless seedlings results. Most double begonia seed is therefore grown from semi double varieties, but these cannot give a good percentage of genuine CONSTANT doubles. The correct way is to artificially force the best named double varieties to produce a LITTLE pollen, and therefrom set the seed. This being slow, uncertain and painstaking work, the few grains so produced are rarely sold, being really more valuable than gold. Such seed produces 85 to 95 per cent. of good doubles.

OUR begonia seed is grown by the last method and is the result of a summer's work of a most skillful hybridist. Most of the seedlings will bloom double, from the first flower to the last in November. They will come in all the delicate shades of white, cream, canary, lemon, salmon, salmon-orange, rosy-salmon, pink and rose. It contains a good percentage of basket varieties, trailing begonias, and Chrysanthemiflora. Price per trade packet, $1.00. Stock limited. Single seed, 25 cents.

☞ Double begonias are excellent for floral work, especially for funeral designs, being pure, delicate, beautiful and very durable.

BEGONIA BULBS.—We supply florists with small unflowered seedling bulbs from the best of seed. Having discovered easy and rapid methods of handling, we can sell at a low price. They are twice transplanted, one season old, and make good stock for bedding, pot plants or summer decoration of green houses. Price per hundred, $2.00; per thousand, $15.00, post paid.

BEGONIA PLANTS.—These are the above bulbs started. They are ready through May and June when greenhouses get cleared of other plants. Florists will welcome these for raising their own bulbs, for brightening the greenhouses and frames during summer and for their incessant supply of valuable cut-flowers. Price same as bulbs. We book orders now.

INFORMATION.—Florists who are not successful with Tuberous Begonias should write us their difficulties and we will give the best instruction free of charge.

☞ We devote most of our glass and time to Tuberous Begonias. Having one of the finest collections of named varieties extant. We can turn out a superior article.

M. WINDMILLER & SONS,
MANKATO, MINN.

CHOICE VINES,
For Immediate Shipment.

5,000 AMPELOPSIS VEITCHII, 1 year, pot grown, fine. $7 00 per 100
1,000 AKEBIA QUINATA, (a fine climber, bears a rich maroon flower) . . $6 00 per 100
3,000 CLEMATIS PANICULATA, (creamy white flowers in clusters, very fragrant profuse bloomer), 1 year pot grown, fine, $10 per 100
5,000 HONEYSUCKLES, Golden, Hall's Japan and Fragrans, strong plants. . $6 00 per 100
2,000 ENGLISH IVY, 1 year, very fine, $8.00 per 100

THE WM H. MOON CO.,
MORRISVILLE, PA.

	Rooted Cuttings.	Plants 2½-in pots
Geraniums and Fuchsias....per 100,	$1 50	$3 00
Moon Vines..... "	1 50	3 00
Heliotrope..... "	1 00	
Coleus and Alternanthera... "	70	2 00
Stevia and Alyssum..... "	1 00	
Petunias and Lantanas..... "		3 50
Chrysanthemums..... "	1 50	3 00
Paris Daisy..... "	1 00	

☞ Price list on application.

HEITE FLORAL CO.,
712 Linwood Ave., Kansas City, Mo.

FIFTY THOUSAND
PEARL TUBEROSES
F. O. B. NEW YORK.

We offer selected bulbs of above, from four to six inches in circumference, for present shipment, at $9.00 per 1000. Orders accepted subject to being unsold.

SWEET PEAS, California grown.
We are headquarters for California grown Sweet Peas, and parties desiring to contract for their requirements for season of 1894, will do well to write for prices.

SUNSET SEED & PLANT CO.
(SHERWOOD HALL NURSERY CO.)
427-9 Sansome St., *San Francisco, Cal.*

Z. De Forest Ely & Co.
WHOLESALE SEEDSMEN,
Growers AND Importers of Bulbs.
JOBBERS IN FLORISTS' SUPPLIES.
1024 Market Street, PHILADELPHIA, PA.
Price lists to dealers on application.



TRY **DREER'S GARDEN SEEDS,**
Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.
HENRY A. DREER,
Philadelphia, Pa.

25,000
Lady Hume Campbell Violets,
$3.00 per 100; or $25.00 per 1000.
WM. MATHEWS,
West View Greenhouses, UTICA, N. Y.

MARSHALL STRAWBERRY.
Latest Novelty for 1894. Magnificent fruit. Largest and finest ever grown. 14 berries fill a quart. Took First Five Prizes from Mass. Hort. Society, Boston, in 1892, and again in 1893. Deep red, solid, delicious flavor. Flower perfect. $2 50 per 12; $16 50 per 100 postpaid. Priced catalogue of Strawberries and all Decorative Hardy Plants, Shrubs and Trees at low rates, sent free. Large stock. B. M. WATSON,
Old Colony Nurseries, PLYMOUTH, MASS.

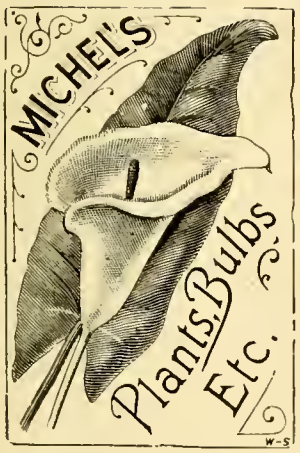


Electro of this cut (No. 10421) Price $2.

New Catalogue (No. 4) containing over 1,000 Ornamental Cuts for Florist's use, such as envelopes, letter heads, bill-heads, cards, advers, floral designs, etc., at from 30c and upwards. Price of Catalogue 25c. (deducted from $1 order).

A. BLANC,
Engraver for Florists,
PHILADELPHIA, PA.

BULBS
Send List of What You Need.
WE CAN SAVE YOU MONEY.
A. BLANC & CO., Philadelphia, Pa.



Write for Wholesale List.
MICHEL PLANT AND BULB CO., ST. LOUIS, MO.

GEO. W. WEST,
GROWER AND EXPORTER OF
BERMUDA BULBS,

Lilium Harrisii,	Lilium Longiflorum,
Freesia Refr. Alba,	Calla Lily,
Amaryllis Johnsonii,	French Cannas, best vars.
Amaryllis Regina,	White Rom. Hyacinths

CYCAS PALM LEAVES
A Specialty.
SHELLY BAY, - - BERMUDA.

Mention the American Florist when writing to advertisers on this page.

eed eed

FOR

MARKET GARDENERS AND FLORISTS

Almost our entire extensive business is supplying the choicest varieties of Garden and Flower Seeds direct to **Market Gardeners** and **Florists.** We furnish not only sorts that are pure and true of their kind, but we make a **close** study of the varieties that are especially adapted to the wants of the **Gardener, who grows for Market and Shipping.**

While there are other good, reliable seed houses, there is **no house in the trade** that has given the wants of this class of planters the careful attention we have, or can serve him as well.

Fully appreciating the great care necessary with this class of orders, they are carefully separated and given to our most reliable and trusted employes to execute.

Our handsome Catalogue and Wholesale Market Gardeners Price List will be sent free and their Photographic Illustrations truthfully portray the Superior Vegetables our Seeds produce.

JOHNSON & STOKES,

217 & 219 Market Street, PHILADELPHIA, PA.

Mention American Florist.

Special Low Offer.

WE BEG TO OFFER:

LILIUM LANCIFOLIUM (SPECIOSUM) RUBRUM at $36 per 1,000. Strong Bulbs, size 8-10 inches circumference.

CLEMATIS assorted. Leading kinds. Strong plants. 5 to 6 feet high; 3 to 6 shoots at $200 per 1,000. Ditto. Second size. 4 to 6 feet. 1 to 3 shoots at $160 per 1,000.

M. KOSTER & SONS, Nurserymen,
BOSKOOP, HOLLAND.

Hulsebosch Brothers,

OVERVEEN, HAARLEM, HOLLAND.

	Per 100	Per 1000
LILIUM SPECIOSUM ALBUM	$ 6.00	
" " ROSEUM	5.00	
" " RUBRUM	5.00	
SINGLE BEGONIAS, fine bulbs, new crop, finest strain, in 4 separate colors.	4.00	35.00
CONVALARIA MAJALIS, German pips.	1.00	8.00
TUBEROSES, Pearl and Tall, A1 (big) bulbs.	.90	7.50
LOW BUDDED ROSES, in sorts, Dutch Stock.	9.00	
English Stock.	11 00	

All other plants or shrubs can be ordered for March, '94 delivery.

HULSEBOSCH BROS.,
58 West Street, NEW YORK CITY.

SEEDS!
PLANTS! BULBS!
Everything appertaining to the Farm and Garden of the best and choicest quality. PRICES RIGHT.
Catalogue on application.
WEEBER & DON.
114 CHAMBERS ST., NEW YORK CITY.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Summer Delivery

(JULY AND AUGUST.)

PALM SEEDS (from California and Australia).
TREE FERN STEMS.
FREESIAS. We will have a million of FREESIAS running from 7-16 to ¾ of an inch.
CALLAS. Dry roots in all sizes.
LIL. LONGIFLORUM.
CALIFORNIA SMALL BULBS.
Brodiæas, Calochortus, Fritillarias.

Advance Price List ready. Send for it. We want your orders now. Address

H. H. BERGER & CO.,
SAN FRANCISCO, CAL.

TESTED SEEDS

Plant Tested Garden, Flower and Farm Seeds and be sure of a good crop. Our stock is complete and the quality is unsurpassed. Send for our Free Illustrated Catalogue of Seeds, Plants, Bulbs, Tools, Etc.

W. W. BARNARD & CO., Chicago,
(Successors to Hiram Sibley & Co.) 6 & 8 N. Clark St.

. . DUTCH BULBS . .

PETER VAN VELSEN & SONS,
Houtvaart-Overveen near Haarlem, Holland.

Growers of Hyacinths, Tulips, Crocus, Narcissus, etc. Catalogue free on application. Special prices given for large quantities.

Established 1834.

FOR

Caladium Esculentum Bulbs,

WRITE TO

L. CAMERON,
SEEDSMAN AND FLORIST,
JACKSONVILLE, FLA.

Indianapolis, Ind.

The Society of Indiana Florists met at the Indianapolis Florists' Club rooms January 31 at 8 p. m. In the absence of Mr. M. A. Hunt on account of sickness, J. S. Stuart of Anderson, vice-president, presided.

The meeting was well attended. The secretary's report showed a good balance in the treasury. The last chrysanthemum show committee reported the exhibition a success in every particular. The fruit exhibit was small, but taking the poor season into consideration, it was of good quality. The State Horticultural Society will again meet during show week, and if season is favorable for fruit a fine fruit exhibit will be made.

The special committees appointed by the S. I. F. and Indianapolis Florists' Club to arrange for the American Carnation Society convention reported good progress. All arrangements will be made as perfect as possible.

The committee on advance premium list for the eighth annual chrysanthemum show reported that the time should be from November 5 to 10. A regular premium list to the amount of $700 was approved. Many special premiums are already signed, and many more are expected. An extra large premium was made for a grand display of roses.

The election of officers resulted as follows: W. W. Coles, Kokomo, president; Wm. Langstaff, Indianapolis, vice-president; Wm. G. Bertermann, Indianapolis, secretary; John Hartje, Indianapolis, assistant secretary; J. T. Huntington, Indianapolis, treasurer.

An interesting paper on "Curiosities in plant life" was read by J. J. B. Hatfield, Indianapolis. It was very instructive and showed close study. B.

HOULTON, ME.—Mr. F. H. Moses of Bucksport has opened a branch store in this place.

HARTFORD, CONN.—The Hartford Horticultural Society will hold a spring exhibition of flowering bulbs, roses, carnations, etc., on March 21 and 22. Premiums to the amount of $225 are offered.

PATERSON, N. J.—Arthur I. Vescelius has entered the retail florists' ranks, and will open a store at 89 Main street, February 17. He is fitting up his store with all modern conveniences and expects to make it very decorative.

SPRINGFIELD, MASS.—The Gale Floral Company has filed a voluntary petition in insolvency with an offer of composition at 25 cents on the dollar, payable within thirty days. The liabilities amount to over $5,200, one-third of which is scattered among the brethren of New York City and vicinity.

E. G. HILL & CO.,

Wholesale Florists

RICHMOND, INDIANA.

WE PAY THE EXPRESS.

100,000 Pansies,

grown from seed that has no superior, strong, stocky plants, in the sixth leaf, once transplanted, 60 cts. per 100; $1.50 per 1000. Mammoth Verbenas, rooted cuttings, 70 cts. per 100; $5.50 per 1000.

All the above to color; delivered free at your door.

S. WHITTON & SONS,
9 & 11 ROBERTS ST., UTICA, N. Y.



WHY do so many Canna Growers say they have a YELLOW Canna "As good as Florence Vaughan?"

Our Spring Book for Florists, complete in all lines, is now being mailed. Write for it if you are not on our lists. It is worth asking for.

VAUGHAN'S SEED STORE,
New York. CHICAGO.

HOW TO GROW CUT FLOWERS.

A PRACTICAL TREATISE ON

THE CULTIVATION OF THE ROSE,

And Other Flowering Plants for Cut Flowers, sent to any address upon receipt of $2.00. M. A. HUNT, Terre Haute, Ind.

100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, $2.50 per 100; $20.00 per 1000. Rooted Cuttings, $1.00 per 100; $8.00 per 1000.

NO RUST OR MILDEW.

Packed light and satisfaction guaranteed. Send for circular. . . .

We are the largest growers of Verbenas in the country. Our sales reaching last year 215,500. Our plants this year fully equal, if not surpass, any we have ever grown.

J. L. DILLON, Bloomsburg, Pa.

Rooted Cuttings.

100 Coleus, 10 kinds by mail 60c

Shelly's Yellow and Verschaffeltii,

By Express.....$5.00 per 1000.
With 12 other good kinds 4.00 per 1000.

ALTERNANTHERA P. Major and Aurea Nana, by mail, 50c. per 100.
Sample dozen by mail, 10c.

S. O. STREBY,
Lock Box 77,
UPPER SANDUSKY, OHIO.

Verbenas

SPECIAL OFFER.	Per 100	Per 1000
Unsurpassed Mammoths, 2¼-inch pots	$3.00	$25.00
" " " rooted cuttings	1.25	10.00
Genera collection, named, " "	1.00	8.00
" " " 2¼-inch pots	2.50	20.00
H. P. Roses, dormant, strong	6.00	75.00
Tea " " "	6.00	50.00
Forcing " 3-inch pots, "	6.00	50.00

WOOD BROTHERS,
Fishkill, N. Y.

200,000 Pansies.

The Jennings strain of large flowering and fancy pansies may still be had in any quantity wanted. Plants are field grown and are fine and stocky. Finest mixed, by Express, $5.00 per 1000; 5000 $20.00; 10,000 $35.00. Small plants by mail, 60c. per 100.

Seed, pure white, yellow or mixed, $1.00 per trade pkt. of 2,500 seeds. The leading strain. The largest sales. Always satisfactory.

ADDRESS E. B. JENNINGS,
WHOLESALE PANSY GROWER,
Lock Box 254. SOUTHPORT, CONN.

HEADQUARTERS FOR COLEUS

Golden Queen, Golden Bedder, and Crimson Verschaffeltii specialties; also a large number of other varieties. Rooted Cuttings $6.00 per 1000. Liberal discount for large orders.

Geraniums, 2½-in. pots, $20 per 1000; $2.25 per 100; from flats, $15 per 1000; $1.75 per 100. Ageratums, blue and white, rooted cuttings, 75c. per 100. Fuchsias, leading sorts, 2½-in. pots, $2 per 100; rooted cuttings, $1.25 per 100. Petunias, Dreer's strain, 2½-in. pots, mixed, $2.50 per 100; rooted cuttings $1.50 per 100; Double White same price. Heliotrope, 4 varieties, rooted cuttings, $1.25 per 100. Salvia Splendens, $1.25 per 100 rooted cuttings. At these prices the selection of sorts to remain with us. Cash must always accompany the order. J. E. FELTHOUSEN,
370 Van Vranken Avenue, SCHENECTADY, N. Y.

PALMS.

150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

Address GEORGE WITTBOLD,
1708 N. Halsted St., CHICAGO.

HEADQUARTERS for WATER LILIES

SEED of Red, White and Blue varieties, 50 cts. per trade pkt.

Nelumbium speciosum (Egyptian Lotus), N. s. roseum, N. luteum. Prices on application.

My Columbian Novelties will be ready for distribution this spring. These include such vars. that received special award at the World's Fair, and other rare vars.

Wm. TRICKER, DONGAN HILL New York.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.



In the Front Rank!

NEW WHITE CHRYSANTHEMUM "MUTUAL FRIEND."

It is sure to be a prize winner and a leading variety for '94.

FIRST PRIZE AND CERTIFICATE of MERIT MASS. HORT. SOCIETY, '93.

Orders booked now for March delivery, 50c. each; $4.00 per dozen. At these prices all should try it. We know it will please. Send for descriptive circular.

MANN BROS., Randolph, Mass.

SMILAX.

CUT SMILAX—Half an acre ready to cut now. Quality A 1.

EASTER ORDERS BOOKED NOW.

SMILAX PLANTS—Extra strong 1 yr. old, $2.50 per 100; $20 00 per 10 0.

TRANSPLANTED SEEDLINGS—$1.00 per 100; $8.00 per 1000.

SMILAX SEED—A few ounces left; crop of 1893, at 50c. per ounce.

JOS. E. BONSALL,
WHOLESALE FLORIST,
308 Garfield Avenue, SALEM, OHIO.
Mention American Florist

ROOTED CUTTINGS. Per 100

Alternantheras, Versicolor, Rosea nana, Aurea nana, Tricolor and P. Major	$.50
Coleus of sorts, mixed	.50
" best new and old, named	1.00
Fuchsias	1.00
Mexican Primroses, 3 kinds	1.00
Fittonia, red veined, $2 00; silver veined	1.50

PLANTS.

Alternantheras, full of cuttings	3.00
Begonias, assorted; Lantanas, assorted	4.00
Fuchsias, ass't; Heliotrope, ass't, $3.00 and	4.00
Abutilons, assorted	4.00
Echeveria glauca, $2.00 and	3.00
Extensa globosa, 6 to 12 in. across 25 & 50c. ea.	
Achyranthus, assorted	3.00
Coleus, assorted, $2.00 and	3.00
Hibiscus, assorted	4.00
" Schizopetalus	6.00
Antherieum picturatum, per dozen, 75c.	
Ivy and Bronze Geraniums, assorted, 2½-in. pots	4.00
Silver-Leaf Geraniums, 3 varieties (no Mme. Salleroi)	4.00
Oxalis, Ortgiesi and Bowii	4.00

ROBT. S. BROWN & SONS,
Box 99. KANSAS CITY, MO.

CLEMATIS.

A fine lot of 2-year old plants: Jackmanni, Duchess of Edinburg, Henryii, C. Lovelace, Fairy Queen, Lady Neville, Gem, P. Alexandra and others, $3.00 per dozen; $22.00 per 100.

SMILAX SEEDLINGS,

from fall, 75 cents per 100; $6.00 per 1000.

F. A. BALLER, Bloomington, Ill.

Rooted Cuttings.

Carnations, Chrysanthemums, Coleus, Etc.

Standard varieties and novelties. At prices to suit the times. Send for list.

JOHN J. CONNELLY, Bryn Mawr, Pa.

New Chrysanthemum, MRS. J. GEO. ILS,

A CALIFORNIA SEEDLING.

Flowers sent from San Francisco to the Chicago Show awarded a MEDAL.

A grand white, of remarkable substance, size and depth of flower. See Illustration in AMERICAN FLORIST of November 16th. The very vigorous habit, and our large stock of this novelty, enables us to assure the trade of good plants, and to guarantee safe arrival. To be sent out the 1st of March, 1894, at the following prices to the trade:

75 cents each; $7.50 per 12 plants; $14 per 25 plants; $25 per 50 plants; $40 per 100.

ORDERS BOOKED NOW BY

JOHN H. SIEVERS, 25 Post St., SAN FRANCISCO, CAL.

BARGAINS,

GOOD PLANTS, and ready to ship NOW.

	Per 100
Geraniums, Mme Salleroi, very stocky, 2-inch	$ 1.50
" Bronze, strong, 2-inch	3 00
" best bedders, 5 to 20 varieties	2.50
Coleus, splendid assortment, 2-inch	2.00
" Golden Bedder (alone), strong, 2-inch	2.00
Heliotropes, 2-inch	2.00
Fuchsias, good assortment, 2-inch	3.00
Canna Mme. Crozy, dry bulbs, $1 00 per dozen.	

I have the following in **ROOTED CUTTINGS,** ready to ship any day.

Geraniums, best bedders, 5 to 20 varieties	$ 1.25
" La Favorite, best double white	1.25
" Rose Scented	1.25
" Mme. Salleroi	1.00
Ivy Leaf Geraniums, fine double varieties mixed	2.00
Coleus, about 20 splendid varieties in mixture	.50
" Golden Bedder (when ordered alone)	.75
Double Sweet Alyssum	.50
Carnation Portia	1.00
" Lizzie McGowan	1.00
" Puritan	1.25
" Nellie Lewis	1 50
" Fred. Dorner	1.25
" Grace Wilder	1.00
" Aurora	1.50
" Garfield	1.50
100,000 Rooted Cuttings Carnations ready.	
Alternanthera aurea nana	.50
" P. major	.50
Manettia Vine	1.00

N. S. GRIFFITH, Independence, Mo.

Independence is well located for shipping, being 8 miles East of Kansas City, Mo.

THE ASSOCIATION FLORA,

BOSKOOP, HOLLAND.

NOW ON HAND IN NEW YORK:

CLEMATIS in sorts, 3 years, per 100	$25.00
SPIRÆA JAPONICA "	4.00
DIELYTRA SPECTABILIS "	4.00

Lilium speciosum, Pæonias Rhododendrons, Azaleas H. P. Roses, in best varieties, per 100 $9.00; Abel Carriere, Alfred Colomb, Anna Alexieff, A. de Diesbach, B. Rothschild, Fisher Holmes, Gen. Jack, La France, Mme. G. Luizet, Mme. Plantier, Magna Charta, Paul Neyron, P. C. de Rohan, Perle des Blanches, Ulrich Brunner and others. Catalogue on application.

P. OUWERKERK,
206 Cambridge Ave., JERSEY CITY, N. J.

CHRYSANTHEMUMS —AND— CARNATIONS.

Send for trade list.

NATHAN SMITH & SON,
167 W. Maumee St., ADRIAN, MICH.

STOCK CHRYSANTHEMUMS.

Pres. W. R. Smith, best pink 1893	each 40c
The Queen, best white 1893	" 50c
Niveus, fine white	" 40c
Golden Wedding, extra yellow	" 35c
A. T. Ewing and Alba Venus	" 25c
And a host of standard sorts	" 15c

BROWN & CANFIELD, Springfield, Ill.

NEW CHRYSANTHEMUMS.

SPECIALTIES: Including The Queen, Niveus, Mrs. F. L. Ames, Golden Wedding, Judge Holtt, and Good Gracious. Twelve plants for $1.00.

NOVELTIES: Including The World, White Eagle, Monarch of Ostrich Plumes, Silver Waves, and Pascha. Fourteen plants for $1.00.

GENERAL LIST: Including many new varieties. Sixteen plants for $1.00.

Now ready for delivery. Send for catalogue.

M. B. LITTLE, GLENS FALLS, N. Y.

Hard Time Prices.

STOCK PLANTS.

GEO. W. CHILDS, WABAN, MRS. L. C. MADEIRA, VIVIAND-MOREL, V. H. HALLOCK, JESSICA, J. C. VAUGHAN, AMI HOSTE, DIANA, at $1.00 per dozen.

Cash with Order.

SOUTH SIDE FLORAL CO., Springfield, Ill.

Always mention the American Florist when writing to advertisers.

Mass. Hort. Society.

Following is the list of speakers and essays arranged for the weekly meetings for the remainder of the season:

February 10.—The Construction of Plant Houses. By W. A. Burnham, of The Lord & Burnham Co., Irvington-on Hudson, N. Y.

February 17.—Mushrooms. By William Falconer, Editor of *Gardening*, Glen Cove, N. Y.

February 24.—Cinerarias and Calceolarias. By Kenneth Finlayson, Brookline.

March 3.—Some Insects Injurious to Vegetation. By John G. Jack, Arnold Arboretum, Jamaica Plain.

March 10.—Metropolitan Parks. By Sylvester Baxter, Ex-Secretary of the Metropolitan Park Commission, Malden.

March 17.—Growing Seeds for the Market. By Hon. James J. H. Gregory, Marblehead.

March 24.—Vegetables Under Glass. By William D. Philbrick, Newton Center.

March 31.—Horticulture at the World's Columbian Exposition. By William J. Stewart, Winchester.

Insect on Cyclamen.

Replying to subscriber the insect you send is a species of aphis and the best remedy is the application of kerosene emulsion, the formula of which is as follows: Soft soap one quart, or hard soap one quarter of a pound, preferably whale oil soap; two quarts of hot water, one pint of kerosene; stir until all are permanently mixed; add water until the kerosene forms one-fifteenth of the whole compound; mix and apply it with a hand syringe.

Flowers for Dinner.

He—"You say there are no flowers for the dinner table. Where are the chrysanthemums I sent home?"

She—"Oh, George, don't speak so loud; you might hurt Bridget's feelings. She didn't understand what they were, and has cooked them in milk."—*Life*.

The Best Carnation in the Market.

THE ADELAIDE KRESKEN

Which was originated in 1891, and flowered in the same year, is conceded by all to be the prettiest Carnation ever grown. Strong grower, free from rust, is 2 ft. high, stiff stem, good calyx, and the flower (of a beautiful rosy pink color) averaging three inches and over.

A VERY FREE BLOOMER. In addition to recovering the **Best Seedling Prizes** at Cincinnati, O., Club Certificate at Springfield, Mass., and Milwaukee, Wis., Hunt Prizes, Indianapolis, Ind., it has received Certificates of Merit at the American Florists' Society, St. Louis, Mo.; also the best vase of pinks at St. Louis, Mo., and Certificate of Merit at Toronto. The undersigned begs leave to submit the following exceedingly low prices for **Rooted Cuttings**, which will be ready March 1st, 1894: **$2.00 per doz.: $10 per 100; $45 per 500; $80 per 1000.**

Cash must accompany all orders. Address all communications to

PETER HERB, Mt. Healthy, Hamilton Co., O.

HEADQUARTERS for ROOTED CUTTINGS

— OF —

CARNATIONS

BUTTERCUP, The Standard.
LOIS C. HAETTEL, New White
HAWAII, New Variegated.
} Write for prices.

Carnation florets always in season.

CHAS. T. STARR, Avondale, Chester Co., Pa.

ROOTED CUTTINGS.

Chrysanthemums AND Carnations.

Write for list and prices. Prices to suit the times.

Address J. G. BURROW, Fishkill, N. Y.

Higher
prices have been paid this season in Boston for
Ada Byron and Nicholson
than for any other Carnations because they are The
Purchasing Public's Ideals.
Ada Byron is the deepest yet brightest pink imaginable,
Nicholson is just the color of a Mad. C. Luizet Rose.
Language cannot describe the sweet, clove-fragrance they possess.
They are superior in vigor, size, color, fragrance,
keeping and selling qualities to any yet produced.
First Prizes and Certificates
at New York, Boston and Springfield.
Send for priced descriptive circular to the Originators'
Sole Agents.— Joseph Breck & Sons (Corporation)
47 & 54 North Market St. Boston. Mass.

Carnations==Panic Bargains

	Per 1000		Per 1000
Lady Emma or Portia	$ 10.00	Puritan	$ 15.00
White Dove	10 00	Pearl	20.00
Lizzie McGowan	10 00	Edna Craig	20.00
Schaffer	10 00	Daybreak	20.00
Grace Wilder	10.00	Thos. Cartledge	20.00
Mrs. Robt. Hitt	10.00	Mayflower	20.00
Grace Darling	10.00	Hector	20.00
White Wings	10.00	Amy Phipps	25.00
Crimson Coronet	10.00	Blanche	25.00
Golden Gate	10 00	Mrs. E. Reynolds	25.00
American Flag	10.00	Richmond	25.00
Attraction	15.00	Wabash	25.00
J. J. Harrison	15.00	Western Pride	25.00
Aurora	15 00	Dr. Smart	25.00
Louise Porsch	15.00	Purdue	25 00
Nellie Lewis	15.00	Florence Van Reyper	25.00
Orange Blossom	15.00	Buttercup	35.00
Tidal Wave	15.00	New Jersey	25.00

ROOTED CUTTINGS OF VERBENAS, $7.00 per 1000.

Strictly Cash with order. Orders filled in rotation.

ESSEX HEIGHTS FLORAL CO., BELLEVILLE, N. J.

Rooted Cuttings. **CARNATIONS.** Rooted Cuttings.

ALL THE BEST VARIETIES IN CULTIVATION.

FINE STOCKS OF DAYBREAK, EDNA CRAIG AND CARTLEDGE.

NO DISEASE! NO RUST!

Catalogues ready January 1st, '94. Correspondence solicited.

Address **H. E. CHITTY, Paterson, N. J.**

"JACQUEMINOT" CARNATION

WILL BEAR INSPECTION.

Read up that ad. in AMERICAN FLORIST of January 18th. Send for samples and circular. Orders filled strictly in rotation. Rooted Cuttings ready Feb. 20th.

PRICE, per dozen $2.00; per 100 $10.00; per 1000 $80.00.

TERMS: Cash with Order.

PETER FISHER & CO., ELLIS, Norfolk Co., MASS.

ROOTED CUTTINGS OF CARNATIONS

For Immediate Delivery.

Large stock on hand; free from rust or other disease. Satisfaction guaranteed. Send for price list.

JOS. RENARD, UNIONVILLE, Chester Co., PA.

CHOICE SEEDS.

PETUNIA FIM. FL. PL.

The largest and finest strain of double fringed and mottled Petunias to be had. All who see these Petunias say they are the finest they ever saw. Selected specially for florists. Extra size and fine colors. Trade Packet 25 cts.; 3 pkts. 60 cts.; 6 pkts. $1.00.

JOHN F. RUPP, Shiremanstown, Pa.

DAYBREAK, NANCY HANKS And CARTLEDGE.

NOW READY.

FINE, CLEAN, HEALTHY STOCK. SPECIAL PRICES to large buyers of these splendid Carnations.

Address H. E. CHITTY, Paterson, N. J.

Mention American Florist.

Red Spider.

I used to be afraid of Red Spider, but am not now. Have not seen one in my houses for a year. A sure and cheap remedy sent on receipt of $1.00.

A. B. CAMPBELL, FLORIST,
Cochranville, Chester Co., Pa.

COLEUS.

A large stock, in 75 varieties, including the very newest kinds.

ROOTED CUTTINGS, in 30 to 40 varieties, at $6.50 per 1000 by express; in 20 varieties, at $1.00 per 100 by mail.
Golden Bedder (true), at $10.00 per 1000; Verschaffeltii, Golden Verschaffeltii, Mrs. I. D. Haight and other yellows at $8.00 a 1000. **NEW KINDS**, including some of the most handsome ever offered for sale, in 10 varieties, at $2.00 per 100 by mail.
STOCK PLANTS, ordinary kinds at $3.00 per 100; Verschaffeltii and yellows, at $4.00 per 100.
Cash with Order. Safe delivery guaranteed.

CARNATIONS.

ROOTED CUTTINGS of new and leading kinds.

We make a Specialty of **BUTTERCUP** and **STANLEY**, of which we have a large stock. $5.00 per 100; $45.00 per 1000. Plants all in prime condition, and an inspection solicited.

Send for circular of both **Coleus and Carnations.**

W. R. Shelmire,

. . . **AVONDALE, PA.**

SWEETBRIER

Received 1st Premium for "best seedling of any color" at Phila., Nov. 7, '93. Color between Daybreak and Wilder.

Flowers brought $5.00 per 100 wholesale, at J. R. Freeman's, Washington, last winter.

"I like its color better than Daybreak."
EDWIN LONSDALE.

"Sweetbrier is all that can be desired."
W. A. MANDA.

Rooted cuttings, $10.00 per 100; $80.00 per 1000. Delivery to begin February 1, '94.

VIOLET LADY CAMPBELL.

ROOTED RUNNERS, $3.00 per 100; $25.00 per 1000.
Send for price list.

EDW. SWAYNE,
KENNETT SQUARE, PA.

4 NEW CARNATIONS
FOR 1894.

UNCLE JOHN, white; **THE STUART**, scarlet;
E. A. WOOD, pink variegated;
GOLDFINCH, yellow edged pink.

$10.00 per 100; $75.00 per 1000. Ready April 1st.

Get our 1893 varieties from **Headquarters.** We have extra fine stock of Wm. Scott, (the most profitable pink carnation grown); Mme. Diaz Albertini, Eliz. Reynolds, Richmond, and all the others of our set.

Do not forget to order some Major Bonnaffon, the most perfect Yellow Chrysanthemum ever introduced for show as well as market purposes.
Send for price list.

F. DORNER & SON, La Fayette, Ind.

ROOTED . .

CARNATION
. . CUTTINGS

Of the New and Standard varieties.

C. J. PENNOCK,

The Pines. KENNETT SQUARE, Chester Co., PA.

50,000 Carnations.

ROOTED CUTTINGS READY.
NO "RUST."
SEND FOR LIST. . . .

Wm. Swayne,
P. O. Box 226. KENNETT SQUARE, PA.

CARNATIONS AND VERBENAS.

ROOTED CUTTINGS.

We have a large stock of Daybreak, Puritan, Edna Craig, Aurora, McGowan, Nellie Lewis, and other leading varieties. Also immense stock of Mammoth Verbenas.
Send for prices on what you want. Catalogue ready about January 15th. Send for it.

VICK & HILL, Rochester, N. Y.

CARNATIONS.

My list is not a big list but it is a mighty good list, and the cuttings are equally good. I would like to quote figures to you on any of the following varieties. In writing please state how many you will want of each variety. **Daybreak, Lizzie McGowan, Silver Spray, Grace Darling, Aurora, Portia, Edna Craig, Fred Dorner, J. R. Freeman, Golden Triumph.**

Annie Pixley and Helen Keller.

PIXLEY is one of those beautiful light pinks, with a fair sized flower and good, strong calyx. With ordinary culture stems can be cut twenty inches long. The flower is a model in form, and the growth is strong and healthy.
KELLER you know all about, they are both sure to make good paying varieties for cut flowers.

Pixley per 100, $12.00; per 1000, $100.00.
Keller per 100, $12.00; per 1000, $90.00.

Verbena Lancaster Beauty.

Decidedly the prettiest Verbena that grows, novel as well as beautiful and sells at sight.

Price, per 100, $2.00.

PANSIES.—I can still supply a few of those seedling plants at $5.00 per 1000, or 75 cts. per 100. The same good strain I always have.

No list published and terms are cash before shipping or C. O. D.

L. B. 496. **ALBERT M. HERR, LANCASTER, PA.**

IN BLOOM
The new and beautiful Fancy Carnation
"HELEN KELLER"

We extend a cordial invitation to Carnation growers to come and see it growing and blooming. This grand new variety must be seen to be appreciated. It is undoubtedly the

GREATEST NEW CARNATION UP TO DATE!

It is healthy and productive. In form, size and elegance, nothing can approach it. Two houses filled with this sterling novelty are worth going many miles to see—one at Summit; one at Chestnut Hill.

COME AND SEE IT GROWING.

Orders booked now and filled strictly in rotation, commencing March 15, '94. **Strong Rooted Cuttings, $3.00 per Dozen; $12.00 per Hundred; $90.00 per Thousand.**

EDWIN LONSDALE,
CHESTNUT HILL, PHILA.

JOHN N. MAY,
SUMMIT, N. J.

"Washington, — New York"
AND
BOUTON D'OR.

January, 25, 1894.

MESSRS. DAILLEDOUZE BROS., *Gentlemen:*—We wish to compliment you on the qualities of your new yellow carnation Bouton d'Or. It is the best yellow carnation we have ever handled; being a splendid keeper, sells on sight, and will always be in demand.
[Signed] Yours truly, J. H. SMALL & SONS.

PRICE, $2 per Doz.; $10 per 100; $75 per 1000. ROOTED CUTTINGS READY MARCH 1, 1894.
Orders filled in strict rotation. Come and see it grow and be convinced. Only one hour from New York City.

Dailledouze Bros., Flatbush, L. I., N. Y.

GRAND CARNATIONS

ROOTED CUTTINGS.

	Per 100	Per 1000
WM. SCOTT, fine clear pink	$5.00	$40.00
GOLDFINCH, yellow, edged pink, strong, healthy, very free	10.00	75.00
HELEN KELLER, white marked pink	12.00	90.00
ANNIE PIXLEY, light pink, fine	12.00	90.00
UNCLE JOHN large, fine white	10.00	75.00
THE STUART, brilliant scarlet, good.	10.00	75.00
E. A. WOOD, pink variegated, fine	10.00	75.00
DORNER'S SET OF 1893	5.00	40.00

Daybreak, Edna Craig, Tidal Wave, Thos. Carlledge, Silver Spray Emily Pierson, Purilan, Nancy Hanks, McGowan, and all the other leading varieties.

LARGE STOCK READY NOW.
Send for prices.

GEO. HANCOCK & SON,
GRAND HAVEN, MICH.

Daybreak Carnation

A visit from several prominent florists of the State, has convinced me that I have the healthiest stock of the above beautiful carnation in this State. Before leaving my establishment they left orders for Daybreak at $2.50 per 100, and $20.00 per 1000.

I shall have, about Feb. 5th, 50,000 well Rooted Cuttings at the following prices:

$2.50 per 100; $20.00 per 1000.

Terms strictly cash. My customers will please take notice that I cannot accept personal checks. Satisfaction guaranteed.

FRED SCHNEIDER, Wholesale Florist,
ATTICA, Wyoming Co., N. Y.

Mention the American Florist when writing to advertisers on this page.

CARNATIONS

Rooted Cuttings, Now Ready.

	Per 100	Per 1000
DAYBREAK	$3 00	$25 00
BUTTERCUP	4 00	35 00
PURITAN	2 00	15 00
SILVER SPRAY	1 50	10 00
LIZZIE McGOWAN	1 50	10 00
GRACE WILDER	1 50	10 00
PORTIA	1 50	12 00

Cash with order. 10c. per 100 extra when ordered shipped by mail.

Send for wholesale price list of Rooted Cuttings and Plants.

JAMES HORAN, Florist, Bridgeport, Conn.

CARNATIONS.

Strong, healthy, well rooted cuttings now ready.

SAMUEL J. BUNTING,
Elmwood Ave. and 58th St., PHILADELPHIA, PA.

CARNATIONS.

ROOTED CUTTING.

DAYBREAK, $2.50 per 100; $20.00 per 1,000.
SILVER SPRAY, McGowan.
GARFIELD, $1.50 per 100; $9.00 per 1,000.
TIDAL WAVE, $1.75 per 100; $12.00 per 1,000.
PORTIA, HECTOR.
LADY EMMA, $1.25 per 100; $8.00 per 1,000.

LAKE GENEVA FLORAL CO., Lake Geneva, Wis.

The Single Pipe System.

I notice with pleasure the interest manifested by the St. Louis Florists' Club in the discussion of the single pipe system of steam heating for greenhouses, a short description of which was given in the St. Louis news-letter of January 11.

This system is destined to be the future mode of greenhouse piping because of its simplicity, the advantage for regulating temperature by changing one pipe at a time, and its particular adaptability to low pressure steam, the only truly economical steam. The system is not new. There is nothing new under the sun. It is only new in its application to greenhouse heating.

The St. Louis club was of the opinion that steam could not be carried great distances with this system, or in other words the system was only practical on small places. The originator states that there is no reasonable limit. Mr. Franks, of Champaign, Ill., states (AM. FLORIST January 25), that he is heating coils 240 feet long successfully with this system. This is an unusual length as houses of that length are generally heated from the center. This seems to displace the fear as to distance.

A description of the plan of piping may be of interest: Start out from the boiler with a main about one-third or more larger than would be used for the circuit system and cross your houses at the desired point, reducing for every house in such proportion that the end of the main will run out into an 1¼-inch pipe, giving all the pitch to the main that is possible. Then raise your heating coils from the main to the proper height, that from this point (which is the place for the valve) the coil will have a rise of one inch in ten feet to the farther end. At this (the further) end place an automatic air valve which closes when the steam reaches it. The water or condensed steam returns by the same route to a point near the boiler, where there is a large tap placed on the underside of the main which is connected with the returns of the boiler, and falls from the main through this tap into the returns of the boiler. The system works just as well with 50 pounds as 5 pounds of steam and heats with one-half pound pressure.

To the advocates of hot water this system shall not be totally invaluable. There are in operation at the present time in a large new convent in St. Louis five hot water radiators connected, and fed by a single pipe, the water flowing and returning in the same pipe.

WILLIAM L. HUCKE.

Belleville, Ill., January 29, 1894.

Directions for Making a Flower Pot.

Take a large size leaf lard can and give it a good coat of enamel paint. When dry ornament with gold paint and cover with floral designs to suit the taste. Then have your carpenter make you some scalloped moulding to fit around the top. Bore a few holes in the bottom of the can, and you will find that at an expense of about one dollar and the work of two days you have as good a flower pot as you can buy in a store for ten cents.—*Judge.*

DO YOU WANT a list of the leading park superintendents of America? You will find such a list in our trade directory and reference book.

Please mention the AMERICAN FLORIST every time you write to an advertiser.

VICK'S NEW WHITE BRANCHING ASTER



THE FLORISTS' FAVORITE.

Has no superior (often sold by Florists for Chrysanthemums). Easily grown from seed. Anticipates the Chrysanthemum by several weeks. Has long stems; flowers pure white, 4 inches or more in diameter; petals broad, long, and many of them more or less twisted and curled. Plant is a strong grower, and has marked tendency to form numerous branches.

Packed in plain small pockets or envelopes ready to place inside your own seed bags or in our regular bags.

For prices write

725 East Avenue, Rochester, N. Y.

NOVELTIES.

Branching Aster (often sold for Chrysanthemum.)
Hibiscus, Sunset.
Dahlia, Ethel Vick.
Large Morning Glories.
Double Anemone.
Charmer Pea.
Maggie Murphy and other Potatoes.

JAMES VICK'S SONS

Mention this paper.

Supplies of all Kinds, such as Immortelles, Cape Flowers, paper pressed Hartford and Maidenhair Ferns, Wheat Sheaves, Flower Baskets, Pot Holders, Plant Stands, Fern Dishes, etc., etc.; all quoted in our beautifully and richly illustrated new Trade List mailed free. Also

Metal Designs, the best winter cemetery decoration, in rich assortment of tasteful designs: Wreaths, Crosses, Anchors, Hearts, etc., in green or white foliage.

Cycas Leaves, (Sago Palm), natural prepared, equal to fresh cut in appearance, according to size at 40c., 45c., 50c., 60c. and 75c. each.

August Rölker & Sons,
136 & 138 W. 24th St., P. O. Station E. **New York.**

H. BAYERSDORFER & CO.,
WHOLESALE
FLORISTS' SUPPLIES ONLY,
50 N. 4th Street,
PHILADELPHIA, PA.

Our new Catalogue is now out, free upon application.

MARSCHUETZ & CO.,
Florists' Supplies,
23 & 25 N. 4th St., PHILADELPHIA, PA.
Send for Catalogue.

ERNST KAUFMANN & CO.
Florists' Supplies,
113 N. 4TH STREET,
PHILADELPHIA, PA.

HUNTINGTON SEED CO.
Florists' : Supplies,
66 E. WASHINGTON ST.,
INDIANAPOLIS, IND.

Standard Flower Pots, Dried Grasses, Fancy Baskets Metal Designs. Trade Catalogue mailed free.



Florists' Pins
Glass Heads, in Black or White.

PRICES:

1,	1½,	2,	2½,	3,	3½,	4 inches,
50c,	75c,	$1.00,	$1.25,	$1.50,	$1.75,	$2.00 per 1000

For Sale by
August Rolker & Sons, New York.
Wm. Elliott & Sons, New York.
H. Bayersdorfer & Co., Philadelphia.
N. F. McCarthy & Co., Boston.
E. H. Hunt, Chicago.
J. C. Vaughan, Chicago.
Huntington Seed Co., Indianapolis, Ind.
W. Ellison, St. Louis.
E. W. Crook, San Francisco.
J. A. Simmers, Toronto, Ont.
Edw. Mullin, Kingston, Ont.

AUG. F. BRABANT, Manufacturer,
54 Warren Street, NEW YORK.



WHITE DOVES
FOR FLORISTS.

Largest and finest stock in the United States. Write for prices to

S. J. RUSSELL,
850 Montgomery St., Jersey City, N. J.

FOR SALE BY:—A. Hermann, F. E. McAllister, Reed & Keller, N. Steffens, New York; W. C. Krick, Brooklyn, N. Y.; H. Bayersdorfer & Co., Phila.; J. M. McCullough's Sons and H. L. Sunderbruch, Cincinnati, O.; J. M. Gasser, Cleveland, O.; D. B. Long, Buffalo, N. Y.; J. C. Vaughan, Chicago; Wisconsin Flower Exchange, Milwaukee; Wm. Ellison, St. Louis; Ed. S. Schmid, Washington, D. C.; G. W. Currey & Co., Nashville, Tenn.; T. W. Wood & Sons, Richmond, Va.; U. J. Virgin, New Orleans, La.

Florists Just What you Want.

Save your property from FIRE, and your STOCK from FREEZING, by using the ELECTRICAL THERMOSTAT, and FIRE ALARM ATTACHMENT.

We have both in use for some time, and would not be without them. Send for circular and price list to

PAUL BUTZ & SONS, Florists, NEW CASTLE, PA.

DO YOU KNOW . .
THAT YOU CAN GET
20 CANE STAKES FOR 1 CENT

A foot in length by simply using a sharp saw on a bundle of our best.

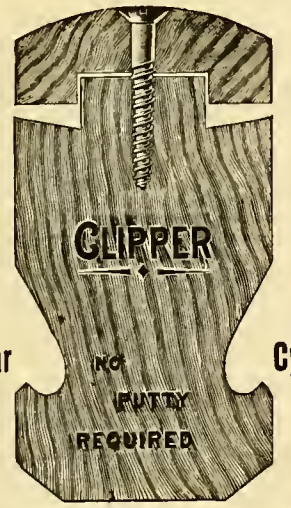
BRACKENRIDGE & CO.,
304 W. Madison St., BALTIMORE, MD.

Sphagnum Moss.

65c. per bale in car lots; 70c. per bale in less than car lots. F. o. b. Mather. Cash to accompany small orders; usual terms on large orders. Good sized bales and moss of good quality.

G. A. MARVIN, Mather Wis.

LOCKLAND LUMBER CO.



MATERIAL FOR GREENHOUSES.

Send for Circulars and Testimonials.

Address LOCKLAND, O.

Mention American Florist.

Increase Your Business

by fostering an interest in plants and flowers among the people in your vicinity. You can best do this by getting subscribers to

GARDENING . . .

which tells people how to get the most satisfaction out of their gardens, and stimulates them to enlarge and extend their gardening operations.

$1.00 A YEAR is the subscription price of this paper, which is issued twice a month, is handsomely and truthfully illustrated, is thoroughly practical, absolutely free from wind and gush and grinds no axes for anyone.

SPECIAL LOW RATE to florists who will act as agents. We want an agent in every city and town in America. Write for terms now to

THE GARDENING CO.

Monon Building, CHICAGO.



CATALOGUE PRINTING. ELECTROTYPING.

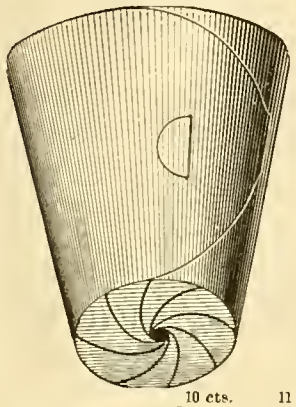
Done with expert ability for Florists, Nurserymen, Seedsmen. Write to

J. Horace McFarland Co.

. . . HARRISBURG, PA.

NEPONSET FLOWER POTS

of Waterproof Paper, light, durable, unbreakable and cheap.



Tomato Growers have used them with success and proved their appreciation by repeated orders.

Cabbage Growers have tried them and duplicated their orders.

Market Growers of Verbenas, Alyssum, Coleus and other plants, which do not shun moisture, have used them extensively in repeated seasons.

Recommended for light and safe packing of tender and valuable plants, for the marketing of Ferns, Dutch Bulbs, Lily of the valley and the like.

Cost about 40 per cent less than earthen pots, and weight considerably lighter, thus saving in first cost and freight.

For Price List and further particulars address

Wholesale Agents:

AUGUST ROLKER & SONS, Station E, New York.
R. & J. FARQUHAR, - - - - Boston, Mass.

Who furnish samples, by mail, postpaid, on receipt of

	10 cts.	11 cts.	14 cts.	17 cts.	22 cts.	40 cts.	60 cts.
For 1 dozen	2¼-in.	2⅝-in.	3-in.	3⅝-in.	4-in.	5-in.	6-inch pots.

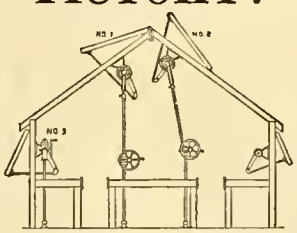
F. W. BIRD & SONS, Sole Manufacturers, EAST WALPOLE, MASS.

VICTORY! VICTORY! VICTORY!

The only Certificate of Merit awarded for ventilating apparatus at the St. Louis Convention was to the

POPULAR STANDARD VENTILATING MACHINE

The florist's friend in working and prices.



No repairs for 5 years. no chains to break as is the result with others.

Opens Sash uniform on 100 foot houses. A new device.

Send for Catalogue and Estimates.

E. HIPPARD, Youngstown, Ohio.

J. N. STRUCK & BRO.

Manufacturers of

• CYPRESS • Greenhouse Material,

LOUISVILLE, KY.

Send orders for . . .

CLEAR CYPRESS

Greenhouse Material

from bottom of gutter up.

Correspondence solicited. Estimates cheerfully furnished.

LYMAN FELHEIM, ERIE, PA.

— OUR —

SASH LIFTER AND HINGES

will do the work and cost you less than any other. Send your name and address and we will mail you description and price.

BAY STATE HARDWARE CO.
272 Freeport Street BOSTON, MASS.

PATENTS

TRADE-MARKS, COPYRIGHTS ETC.
CHANDLEE & MACAULEY,
ATLANTIC BUILDING
WASHINGTON, D. C

THE PERFECT DRAINAGE

BENCH TILE

For circulars, etc., address
W. P. WIGHT, Upland Greenhouses,
Send your business card. MADISON, N. J.

TO TAKE PLACE OF WIND MILLS

HOT AIR PUMPING ENGINES

A Windmill

Is unreliable because it depends upon the elements for its power; hydraulic rams also depend upon favorable conditions and waste as much water as they secure. Steam pumps require skill and hand pumps demand labor and time. The

DE LAMATER-RIDER OR DE LAMATER-ERICSSON Hot-Air Pumping Engines

are especially designed for pumping water, and from shallow streams or any kind of well. They are simple, safe and reliable, require no steam and have no valves. They require very little heat to operate them, and can be arranged for any kind of fuel.

Send for illustrated catalogue to

THE DE LAMATER IRON WORKS,
87 South Fifth Av.,
NEW YORK, N. Y.

Mention American Florist

GLASS

which is absolutely perfect for modern greenhouse construction.

ROCK BOTTOM PRICES.

Send for Estimates. Satisfaction Guaranteed

REED GLASS CO.,
65 Warren Street, and 46, 48 & 50 College Place.
NEW YORK CITY.



Kills Mildew and Fungus Growth. What does?

GRAPE DUST.

Sold by Seedsmen.

The Language of Flowers.



NIGHT-BLOOMING CEREUS.



VIRGINIA CREEPER.



SMIL-AX.



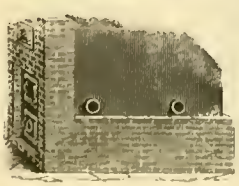
MORNING-GLORY. —*Judge.*

The Florists' Hail Association.

The directors of the Florists' Hail Association have ordered an assessment to be levied on May 1, 1894. This is the fifth assessment ordered since the organization of the association nearly seven years ago. The extraordinary losses during the past year made it necessary to replenish the treasury. New members who join between this date and May 1 are exempt from this levy. JOHN G. ESLER, Sec'y.



GREENHOUSE HEATING
AND VENTILATING.
Superior Hot Water Boilers.
JOHN A. SCOLLAY,
74 & 76 Myrtle Ave., Brooklyn, N.Y.
Send for Catalogue.



GREEN-HOUSE
HEATING.
MYERS & CO
1518 & 1520 S. 9th St.,
PHILADELPHIA.
Send for catalogue and price list.

H. M. HOOKER COMPANY,
57 and 59 W. Randolph Street, CHICAGO.
NATURAL GAS MADE GLASS,
FOR GREENHOUSES.
Write for latest prices.

"Standard" Flower Pots.
As manufactured by us have carried off highest honors wherever shown and have stood the best test. They are used in all the leading floral establishments in the United States. For prices address
The Whilldin Potterv Company,
BRANCH WAREHOUSES: 713, 715, 717 & 719 Wharton St., Philadelphia, Pa.
Randolph Ave. and Union St., Jersey City, N. J.
Jackson Ave. and Pearson St., Long Island City, L. I.

STANDARD FLOWER POTS
Every user of Flower Pots should correspond with us before purchasing elsewhere, our facilities are unequalled.
A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.
We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.
Send for price list and samples and we know you will give us an order.
SYRACUSE POTTERY CO. OFFICE: 403 North Salina Street, SYRACUSE, N. Y.

STANDARD FLOWER POTS
Our new **Pottery,** new **Machinery,** the very **best Clay** in the **Country,** and our new **Patent Kilns,** all combined, make the **best Standard Pot in the market.** Send for price list.
PARMENTER MF'G COMPANY,
GEORGE MESSINGER, Manager. East Brookfield, Mass.

D. H. ROBERTS,
159 and 161 S. Fifth Avenue, - NEW YORK,
NATURAL GAS MADE GLASS,
FOR ROSE HOUSES, CONSERVATORIES, ETC., ETC.

FRENCH GLASS For CONSERVATORIES, ROSE HOUSES, Etc. Etc.
VANHORNE, GRIFFEN & CO.,
Importers of PLATE and WINDOW GLASS. Manufacturers of BENT GLASS and FRENCH MIRRORS.
131-133-135-137 FRANKLIN STREET, NEW YORK.
Note—Imported Glass is used in the best grade of Greenhouse building

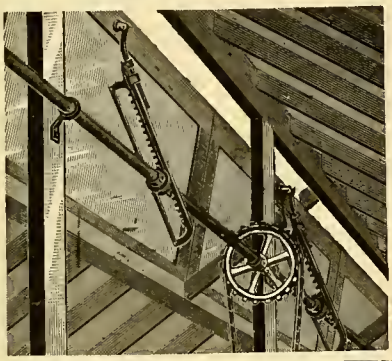
ESTABLISHED 1866.
FLORISTS WIRE DESIGNS
MANUFACTURED BY
N. STEFFENS
335 EAST 21ST ST. NEW YORK.

SEE HERE

BROTHER

FLORIST!

Aren't you tired going through your houses two or three times a day year after year and lifting your ventilating sash one at a time and propping them up with sticks or pots, with a chance of having sash blown off and broken glass to pay for? If you are



We have got just the thing you need, the **NEWEST** and **BEST** thing out. "The New Departure" for **about half** the cost of the old style. Send for Descriptive Catalogue to

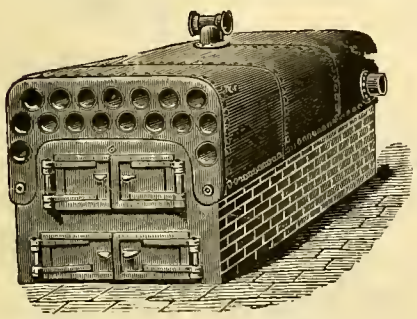
J. D. CARMODY, Evansville, Ind.

ESTABLISHED 1854.

DEVINE'S BOILER WORKS.

THE FLAT TOP TYPE

Wrought Iron Hot Water Boilers



Capacity from 350 to 10,000 feet of four-inch pipe.
SEND FOR NEW LIST.

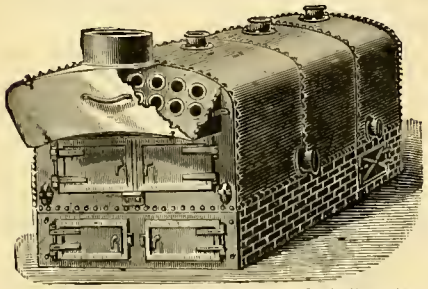
FRANK DAN BLISH, Att'y,
OFFICE, 189 STATE STREET.
WORKS, 56th & WALLACE STREETS.
CHICAGO.

Kroeschell Bros. Co.

IMPROVED

Greenhouse Boiler,

41 to 55 Erie St., CHICAGO.



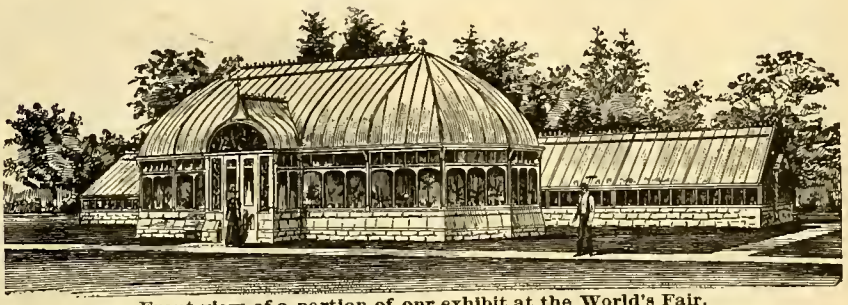
Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

LORD & BURNHAM CO.

Horticultural Architects and Builders,

STEAM AND HOT WATER HEATING ENGINEERS.

☞ Plans and estimates furnished on application.



Front view of a portion of our exhibit at the World's Fair.

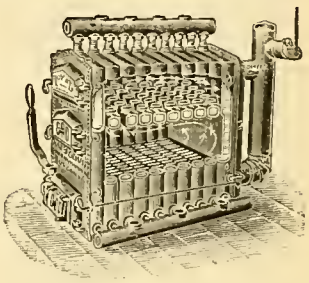
. . . SEND FOUR CENTS POSTAGE FOR ILLUSTRATED CATALOGUE. . . .

LORD & BURNHAM CO., Irvington-on-Hudson, N. Y.

SOLD ON THEIR MERITS AND NOT ON THEIR ANTIQUITY.

ROYAL HEATERS

THE RIGHT KIND of BOILER for a GREENHOUSE.

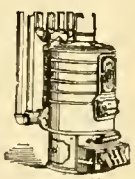


HART & CROUSE,

UTICA, N. Y.

Gurney

HOT WATER
HEATERS AND RADIATORS
FOR HEATING
Dwellings, Public Buildings, Etc.
BY
HOT WATER CIRCULATION.



GURNEY.

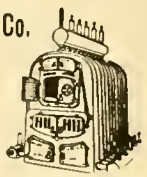
Best for Greenhouses.

Our illustrated book "How best to Heat our Homes" gives the reason why. We send it free.

THE BEST IS CHEAPEST.

Gurney Hot Water Heater Co.

HEAD OFFICE:
163 Franklin St., Boston, Mass.
BRANCH OFFICE:
59 Wabash Ave., Chicago, Ill.
SELLING AGENCIES:
Johnson & Co., 71 John St., New York.
J. C. F. Trachsel, 246 Arch St., Philadelphia.



DOUBLE CROWN.



FURMAN BOILERS

Economical — Substantial — Safe.

56 STYLES AND SIZES—BURNS HARD OR SOFT COAL.

Modern Hot-Water Heating

These Boilers have a high reputation for Staunchness, Durability and Safety, and are **GREAT COAL SAVERS.** Minimum Friction and Maximum Velocity only obtained by **VERTICAL WATER CIRCULATION.** Send for new 150-page book giving full particulars and a great deal of valuable information on modern Heating and Ventilation, with plans and tables for correct hot-water work. Mailed free.

Address **HERENDEEN MFG. CO., 26 Vine Street, GENEVA, N. Y.**

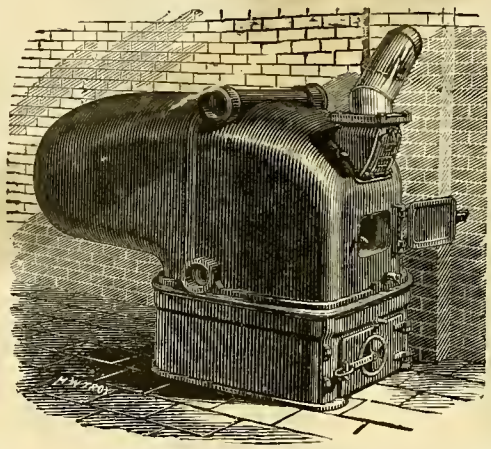
Index to Advertisers.

Adv. Rates, etc 608
Baller F A.....613
Barnard W W & Co....611
Bassett & Washburn 606
Bayersdorfer H & Co ..616
Bay State Hdw Co.....617
Berckman s P J.....605
Berger H H & Co.... ..611
Bird F W & Son ..617
Blanc A.....611
Bonsall Jos E 613
Boston Letter Co .620
Brabant Aug F..... 616
Brackenridge & Co.....616
Brague L B..... .. 607
Breck Joseph & Sons..614
Brown R S & Sons. 613
Brown & Canfield.. ...613
Bunting Samuel J 615
Burns & Raynor.....609
Burpee W Atlee & Co .610
Burrow J G.....614
Burton John.... 608
Butz Paul & Sons 616
Campbell A B..... . 614
Cameron L.....611
Carman R W.... 605
Carmody J D.... ..619
Chandlee & Macauley 617
Chitty H E.. 614
Connelly John J.....613
Corbrey & McKellar.. 6 8
Dalliedouze Bros .. 615
Deamud J B & Co..606 609
De Lamater Iron Wks.617
Denver City Nurseries 608
Devine's Boiler Wks..919
Dillon J L.... 612
Dorner Fred & Son.....615
Dreer H A 610
Elliott W H.....608
Ellison Wm.... .608
Ely Z De Forest & Co..610
Essex Heights Floral Co 614
Felheim Lyman 6 7
Felthousen J E.... .. 612
Fisher Peter & Co.....614
Forstermann L 607
Gibson J C.....605
Griffith N S..... .613
Gurney Heater Co .619
Hail Ass'n..... . 605
Hammond Benj.... ..617
Hancock & Son. 615
Hart James... 609
Hart & Crouse..... .. 619
Hartford H E 608
Helte Floral Co....605 610
Herb Peter.....614
Herendeen Mfg Co 619
Herr Albert M.....615
Hews A H & Co 618
Hill E G & Co... 612
Hippard E..... 617
Hitchings & Co..... .620
Hooker H M Co 618
Horan Edw C. . ..609
Horan Jas..... 615
Hulsebosch Bros .611
Hunt E H..... 509
Hunt M A.... ..606 612
Hunter Frank D.....609
Huntington Seed Co...616
Jennings E B.... .612
Johnson & Stokes... 611
Joosten C H.....606
Kaufmann Ernst & Co.616
Kennicott Bros Co.....609
Koster M & Sons..... 611
Kroeschell Bros Co....619
Kuehn C A.... 608
Lake Geneva Floral Co615
La Roche & Stahl.....608
Little M B.....613
Lockland Lumber Co...617
Long Dan'l B.....608
Lonsdale Edwin.....615
Lord & Burnham Co...619
McCarthy N F & Co....609
McFarland J H.. 607
McFarland J H Co.....617
MacBean A S.....605
Mann Bros.....613
Manz J & Co 617
Marschuetz & Co.....616
Marvin G A 610
Mathews Wm.....610
May John N.....607 615
May L L & Co 606
Michel Plant & Bulb Co 611
Millang Bros..... 609
Moninger Joo C ..620
Moon Wm H Co.....610
Myers & Co.....618
Neff L I.... 607
Oelschlg A C.....607
Olsen & Hughes. .. 509
Ouwerkerk P.....613
Parmenter Mfg Co....618
Pennock C J 615
Pennock Sam'l S.... ..608
Pierson F R Co.....607
Pommert Chas 608
Quaker City Mach Co..620
Randall A L ...609
Reed Glass Co 617
Reinberg Bros.... 609
Renard Joseph.....614
Roberts J H..... ..618
Roehrs Theo..... 609
Roemer Fred... 607
Rolker A & Sons.....616
Rupp John F..... .614
Russell S J.. 616
Sander & Co 607
Saul John..... ... 605
Schneider Fred 615
Scollay John A. . .. 618
Shelmire W R 615
Sheridan W F. 609
Siebrecht & Wadley....607
Sievers John H. 613
Situations wanta.....605
Smith Nathan & Son...613
South Side Floral Co...613
Spaulding T H.....607
Starr Chas T.....614
Steffens N..... 618
Stemmler T W. 606
Straby S O 612
Struck J N & Bro 617
Sunderbruch H L... 608
Sunset Seed & Plant Co610
Sutherland Geo A 608
Swayne Edward..... 615
Swayne Wm 615
Syracuse Pottery Co 618
Tricker Wm... 612
Tritschler M..... .605
United States Nurs'y 608
Van Horne Grillen & Co 618
Van Velsen P & Sons .611
Vaughan J C... 612
Vick & Illll.....615
Vicks Sons James.... 616
Watson B M..... 610
Weathered's Sons T W 620
Weeber & Don.... . 611
Welch Bros 609
West Geo W..... 611
Whilldin Pott'r .618
Whitton S & Sons .612
Wight W P 617
Wiedmiller M & Sons 610
Wittbold Geo.ge.....612
Wolf E E 620
Wood Bros 612
Woodruff W B..... 605
Young Thos Jr.....606

WHEN SENDING us newspapers containing items you wish us to note please do not fail to distinctly mark the item so it can be easily found, as we can not spare the time to hunt through the mass of papers sent us for unmarked items.

GREENHOUSE HEATING AND VENTILATING

Horticultural Architecture and Building.



HITCHINGS & CO.

Established 1844.

233 Mercer St., NEW YORK.

FIVE PATTERNS OF BOILERS.

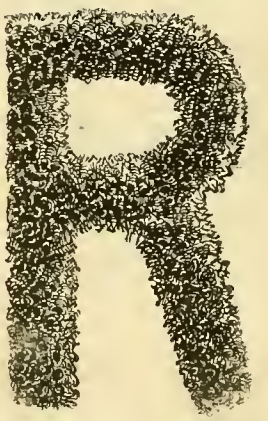
NINETEEN SIZES.

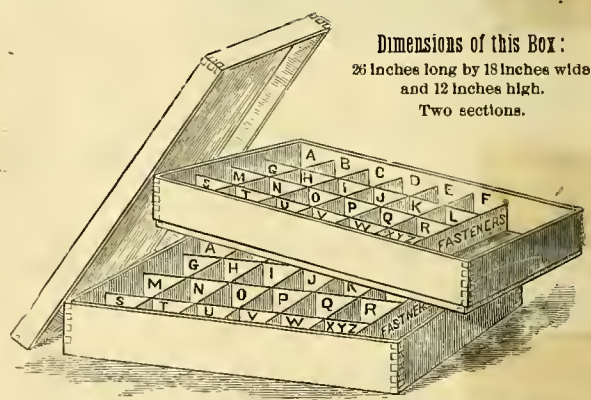
Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc., of Iron Frame Construction, Erected complete, or the Structural Iron Work shipped ready for erection.

Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Top.

SEND 4 CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.





Dimensions of this Box:
26 inches long by 18 inches wide and 12 inches high.
Two sections.

This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.

BOSTON FLORIST LETTER CO.

Manufacture . BEST LETTERS IN THE MARKET.

Sizes 1½-in and 2-in. 2.00 per 100. Patent fastener with each letter.

OUR NEW SCRIPT LETTER, $4.00 per 100.

N. F. McCARTHY, Treas. & Mangr. | Address 13 Green St., **Boston, Mass.**

Address all correspondence to 1 Music Hall Place.

We have a new **FASTENER** which we consider decided success. Any customers having old style fasteners which they wish to exchange, can do so without additional cost by writing us

AGENTS.

A. Rolker & Sons, New York.
Marschuetz & Co., 25 N. 4th St., Phila., Pa.
F. E. McAllister, 22 Dey St., New York.
A. D. Perry & Co., 33 Warren St., Syracuse, New York.
A. Herrman, 415 E. 34th St., New York.
Ernst Kaufman[illegible] Co., 113 N. 4th St., Phila.
H. Bayersdorfer [illegible], Philadelphia, Pa.
A. C. Kendal, 11[illegible]ario St., Cleveland, O.
J. A. Simmers, Toronto, Ont., Agent for Canada.
E. H. Hunt, 79 Lake St., Chicago, Ill.
Wisconsin Flower Exchange, 131 Mason St, Milwaukee, Wis.
H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.
T. W. Wood & Sons, 6th and Marshall Sts., Richmond, Va.
Jas. Vick's Sons, Rochester, N. Y.
C. A. Kuehn, 1122 Pine St., St. Louis, Mo.
D. B. Long, Buffalo, New York.
C. F. Huntington & Co, Indianapolis, Ind.
Z. De Forest Ely & Co., 1024 Market St., Philadelphia, Pa.
Portland Seed Co., 171 2d St., Portland, Ore.
A. Herman, 415 E. 34th St., New York.
Geo. A. Sutherland, 67 Bromfield St., Boston.
Welch Bros., No. 1A Beacon St, Boston.
N. F. McCarthy & Co., 1 Music Hall Place, Boston.

These Letters are handled by all the Wholesalers in Boston.

CYPRESS GREEN HOUSE MATERIAL

CLE[illegible]

GoodelHH Mass Agri Col 15[illegible]

CYPRESS SASH BARS

HOT BED AND VENTILATING SASH

JOHN C. MONINGER,
297 Hawthorne Ave.,
CHICAGO, ILL.

THOS. W. WEATHERED'S SONS,

INCORPORATED.

Horticultural Architects and Hot Water Engineers

Send for Catalogue, enclosing 4 cents in stamps.

No. 244 Canal St., NEW YORK CITY.

EVANS' IMPROVED

CHALLENGE VENTILATING APPARATUS

Write for Illustrated Catalogue.

QUAKER CITY MACHINE WORKS, Richmond, Ind.

THE CHAMPION Automatic Ventilator.

The cheapest, easiest to operate, and by far the best machine in the market. Don't buy a Ventilator until you have seen my illustrated descriptive circular, which will be sent you free, giving prices, etc. Also Champion Soil Pulverizer and Sifter.

Address, **E. E. WOLF,**
Box 114. SPRINGFIELD, O.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.